2485

TA-F444ESX/F700ES

SERVICE MANUAL

TA-F444ESX:
E Model

TA-F700ES:
US Model
Canadian Model
AEP Model
UK Model

MC-Service

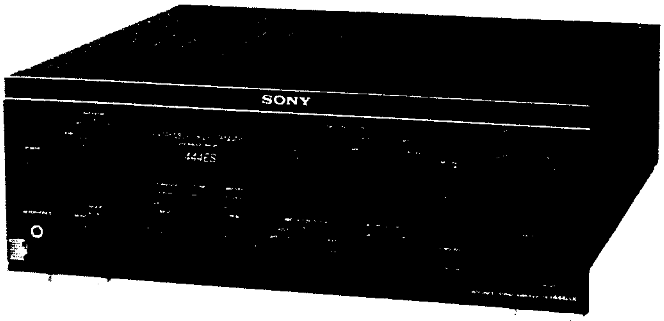


Photo: TA-F444ESX

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US Model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 4 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 140 watts per channel minimum RMS power, with no more than 0.008% total harmonic distortion from 250 milliwatts to rated output.
With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 105 watts per channel minimum RMS power, with no more than 0.004% total harmonic distortion from 250 milliwatts to rated output.

OTHER SPECIFICATIONS

Item	Condition	Data
Continuous RMS power output (both channels driven simultaneously)	4 ohms 20 Hz - 20 kHz THD 0.008% 0.009% (G-AEP)	145 W + 145 W (AEP, G-AEP, UK, E)
	6 ohms 20 Hz - 20 kHz THD 0.006% 0.008% (G-AEP)	125 W + 125 W (AEP, G-AEP, UK, E)
		120 W + 120 W (US, Canadian, North European contries)
	8 ohms 20 Hz - 20 kHz THD 0.004% 0.006% (G-AEP)	110 W + 110 W (AEP, G-AEP, UK, E)
		105 W + 105 W (US, Canadian, North European contries)
Power band - width (IHF)	4 ohms, 0.02%	10 Hz - 100 kHz
	8 ohms, THD 0.02%	10 Hz - 100 kHz
Dynamic headroom ('78 IHF)	4 ohms	3 dB
	8 ohms	2 dB
Total harmonic distortion	4 ohms, at 10 watt output	0.006%
	6 ohms, at 10 watt output	0.004%
	8 ohms, at 10 watt output	0.002%

— Continued on page 2 —

MICROFILM

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT A LA SECURITE!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

INTEGRATED STEREO AMPLIFIER

SONY®

AUD

Intermodulation (IM) distortion 60 Hz: 7 kHz = 4 : 1	4 ohms at rated output		0.008% 0.009% (G-AEP)
	6 ohms at rated output		0.006% 0.008% (G-AEP)
	8 ohms at rated output		0.004% 0.006% (G-AEP)
Damping factor	8 ohms, 1 kHz		100
Slew rate	—		125 V/μsec 250 V/μsec (inside)
Residual noise	network A		less than 115 μV
Frequency response	PHONO MM		RIAA equalization curve ±0.2 dB
	TUNER, CD, TAPE 1, 2, 3		2 Hz - 200 kHz $^{+0}_{-3}$ dB
			2 Hz - 100 kHz $^{+0}_{-3}$ dB (G-AEP)
Input sensitivity	PHONO	MC 3 ohms	0.17 mV, 33 ohms (G-AEP)
			0.17 mV, 100 ohms (US, Canadian AEP, UK, E)
		40 ohms	0.17 mV, 100 ohms (G-AEP)
			0.17 mV, 1 kohm (US, Canadian AEP, UK, E)
		MM	2.5 mV, 50 kohms
	TUNER, CD, AUX, TAPE 1, 2, 3 ADAPTOR IN		150 mV, 50 kohms
Maximum input capability (1 kHz)	PHONO (1 KHz, THD 0.003%)	MC	9 mV
		MM	150 mV
S/N (network)	PHONO	MC	76 dB , 68 dB (A)
		MM	80 dB , 87 dB (A)
78 IHF	TUNER, CD, AUX, TAPE 1, 2, 3 ADAPTOR IN		84 dB , 105 dB (A)
Output voltage impedance	REC OUT 1, 2, 3 ADAPTOR OUT		150 mV, 1 kohm
	HEADPHONES		25 milliwatts (at 8 ohms) Accepts low and high impedance headphones.
Tone controls	BASS, at 100 Hz		$^{+4}_{-3.5}$ dB (turnover frq. 200 Hz)
			$^{+6}_{-5}$ dB (turnover frq. 400 Hz)
	TREBLE, at 10 kHz		$^{+7}_{-8}$ dB (turnover frq. 3 kHz)
			$^{+4}_{-5}$ dB (turnover frq. 5 kHz)
SUBSONIC filter	—		6 dB/octave attenuation below 15 Hz

General

System	Preamplifier section: Low-noise FET high gain NFB type equalizer amplifier, passive type direct tone control Power amplifier section: purecomplementary SEPP power amplifier
Power requirements	US, Canadian Model: 120V AC, 60Hz AEP, G-AEP Model: 220V AC, 50/60Hz UK Model: 240V AC, 50Hz E Model: 120, 220, or 240V AC adjustable, 50/60Hz
Power consumption	US Model: 330 watts Canadian Model: 760VA G-AEP Model: 390 watts UK Model: 350 watts AEP Model: 270 watts E Model: 390 watts
AC outlets	US Canadian Model: 2 switched, total 100 watts max., 2 unswitched, total 100 watts max. AEP, G-AEP, UK Model: 1 switched, 100 watts max. E Model: 1 switched, 100 watts max. 1 unswitched, 100 watts max.
Dimensions	Approx. 430 × 160 × 436 mm (w/h/d) (17 × 6 3/8 × 17 1/4 inches) including projecting parts and controls
Weight	Approx. 18.3 kg (40 lbs 6 oz) net

FEATURES

Newly developed technologies assure excellent performance and tone quality

Pure sound

A head chassis, named "Gibraltar" which provides high rigidity and periodic damping characteristics, is employed to reduce distortion caused by vibrations.
This reduces air vibrations caused by floor and speakers and also reduces vibrations caused by the power transformer and power transistors.

Spontaneous twin drive power circuit

Condensers having large capacity are used for the voltage amplification drive stage of class A and power output stage of class B. Thus, a stable output and high quality sound are obtained, resulting in exclusion of power interferences.
The class A stage realizes a stable operation free from interference of the power stage even when an instantaneous or strong output is received.

Simple and direct tone control

The tone controls consist of only passive elements to minimize the deterioration of tone quality at the tone control circuit.
Tone control elements can be passed by depressing the tone switch.

Source direct switch

A source direct switch is employed to reproduce high fidelity sound.
Any source can be reproduced without passing through the circuits of tone control, subsonic filter, mode switch and balance control.

Super legato linear system

The power amplifier drives low impedance speakers and assures powerful reproduction without low crossover distortion and switching distortion over the wide range.
(Low impedance instantaneous service output 350 W + 350 W, 1 ohm loaded)

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

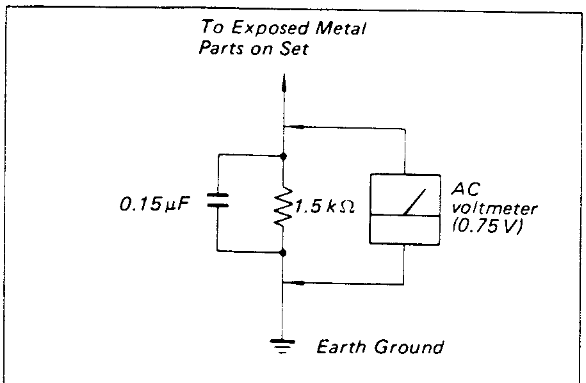
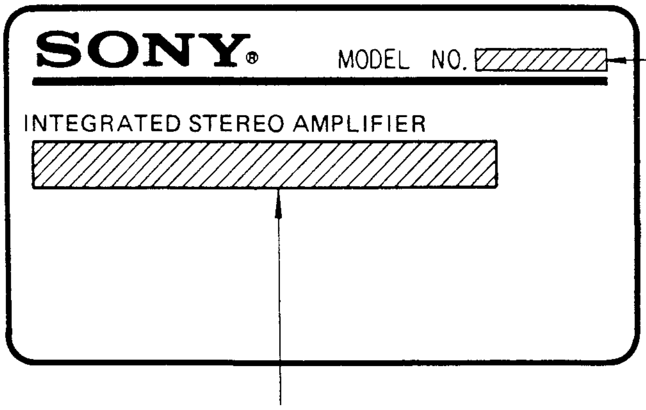


Fig. A. Using an AC voltmeter to check AC leakage.

* * *

MODEL IDENTIFICATION

– Specification Label –



E Model: TA-F444ESX
US Model: TA-F700ES
Canadian Model: TA-F700ES
AEP Model: TA-F700ES
UK Model: TA-F700ES
G-AEP Model: TA-F700ES

US Model	AC120V	60Hz	330W
Canadian Model	AC120V	60Hz	760VA
AEP Model	AC220V	50/60Hz	270W
G-AEP Model	AC220/240V	50/60Hz	390W
UK Model	AC220/240V	50/60Hz	350W
E Model	AC120/220/240V	50/60Hz	390W

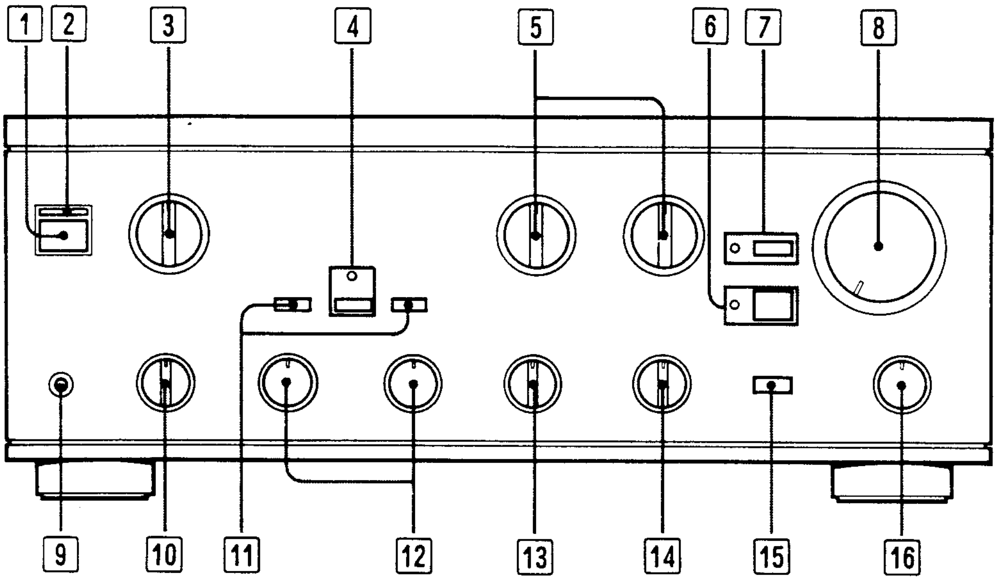
TABLE OF CONTENTS

Title *Description* *Page*

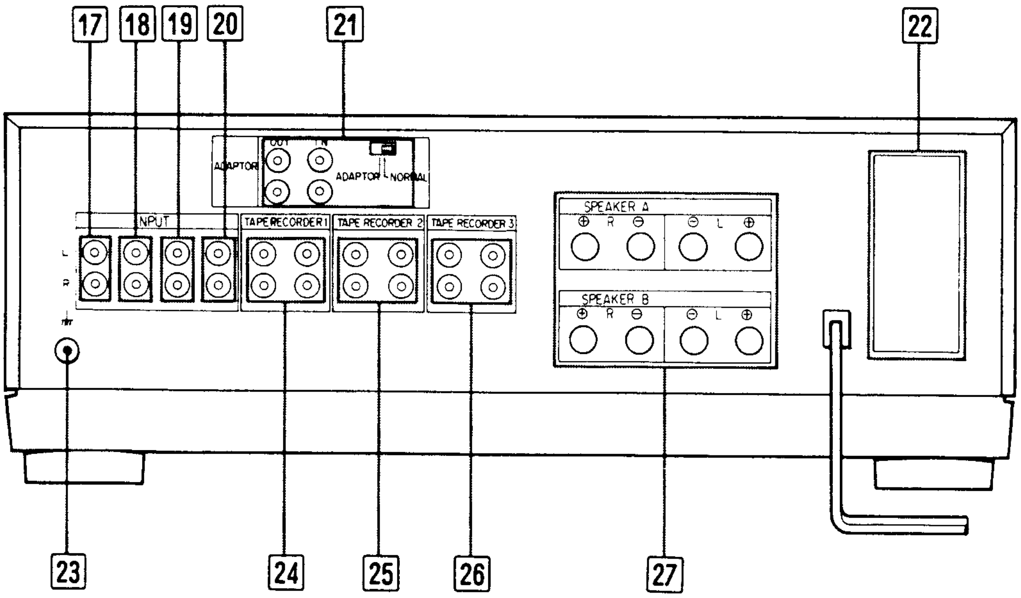
Specifications 1
Features 2
Safety Check-out (US Model) 3
Model Identification 3
Function of Controls 5
Note on Repairing
Disassembly and Assembly for Switch Section. 8
Section 1. Block Diagram 9
Section 2. Disassembly 11
Section 3. Adjustments. 14
Section 4. Diagrams
4-1. Mounting Diagram. 15
4-2. Schematic Diagram 19
Section 5. Exploded Views and Parts List. 23
Section 6. Electrical Parts List 27

FUNCTION OF CONTROLS

Front panel / Panneau avant / Vorderseite / Panel frontal / Voorpaneel


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

Rear panel / Panneau arrière / Rückseite / Panel posterior / Achterpaneel


17
18
19
20
21
22
ADAPTOR
OUT
IN
ADAPTOR
NORMAL
INPUT
L
R
TAPE RECORDER 1
TAPE RECORDER 2
TAPE RECORDER 3
SPEAKER A
⊕ R ⊖
⊖ L ⊕
SPEAKER B
⊕ R ⊖
⊖ L ⊕
23
24
25
26
27

Front panel

1 POWER switch

2 Power/standby indicator
Immediately after turning ON the power, the standby indicator lights in red as the built-in muting circuit activates.
When the amplifier stays in a stable operating condition, the indicator lights in green.
The indicator lights in red when the unit detects shorting of circuit of the speaker outputs or in case of short-circuit of the inputs of DC components.
In such a case, disconnect the power source and check the connected components and speaker systems.

3 SPEAKERS selector
Select speaker system A or B, or both.
For headphone monitoring only, set the selector to OFF.

4 TONE switch and indicator
Depress the switch to activate the tone control circuit.
Red indicator lights.

5 INPUT SELECTOR and TAPE input selector
To select the desired program source, use the INPUT SELECTOR.
To select TAPE 1, 2 or 3, set the INPUT SELECTOR to TAPE and set the TAPE input selector to the desired tape input position.

6 SOURCE DIRECT switch and indicator
Depress the switch. The red indicator lights and the circuits of the TONE switch, SUBSONIC filter switch, BALANCE control and MODE switch are disengaged without regard to the setting of the switches.
When this switch is activated, the indicator of the TONE switch does not light.

7 MUTING switch and indicator
Generally, keep the switch released (OFF).
Depress the switch to reduce the sound level by 20dB.
(Output voltage becomes 1/10.)

8 ATTENUATOR knob
Regulates the sound level.

9 HEADPHONES jack (stereo phone jack)

10 MODE selector
STEREO: For listening to a stereo program.
MONO: For listening to a monaural program.

11 TURNOVER frequency selection switches
Switch the turnover frequency.

12 BASS and TREBLE controls
These controls activate when the TONE switch is depressed.

13 REC OUT SELECTOR
Selects the program source sent to the REC OUT jacks (rear panel).

14 CARTRIDGE LOAD selector
Set the selector according to your cartridge.
MM: For moving-magnet type cartridge
MC: For moving-coil type cartridge
40 Ω: For a cartridge with an impedance of 40 ohms or more.
3 Ω: For a cartridge with an impedance of 3 ohms to 40 ohms.

15 SUBSONIC filter switch
Depress the switch to reduce unwanted noise components of less than 15Hz, which cause modulation noise.

16 BALANCE control
Controls the sound level of left and right speakers.

Rear panel

17 PHONO input jacks

18 TUNER input jacks

19 CD (Compact Disc) input jacks

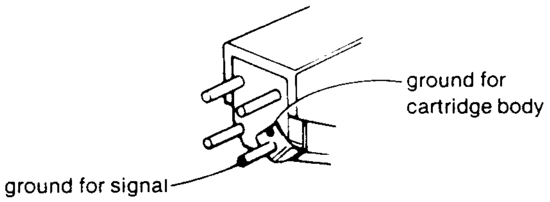
20 AUX (Auxiliary) input jacks

21 ADAPTOR IN/OUT (input and output) jacks and adaptor switch
The OUT jacks output the signals selected by the INPUT SELECTOR on the front panel and the IN jacks receive the signals.
When an additional equipment such as a graphic equalizer is connected, set the adaptor switch to ADAPTOR.
When the jacks are not used, set the switch to NORMAL.

22 AC OUTLET(s) and VOLTAGE SELECTOR (E Model)
The AC OUTLET is used to power other audio components whose total power consumption is less than the wattage indicated near the AC OUTLET.

23 Ground terminal ⏚
To prevent hum, be sure to connect the ground wire of the turntable system to this ground terminal. If hum still exists, it may be helpful to connect the ground terminal directly to earth via a ground rod.

Note
In some particular MM cartridges, the ground for signal is connected to the ground for cartridge body.
If this type of cartridge should be installed to a metal cartridge shell, current will flow through the tonearm ground in a loop and will cause hum noise. In this case, disconnect the turntable ground wire from the ⏚ terminal of the amplifier, or disconnect the ground for cartridge body from the ground for signal.



24 25 26 TAPE RECORDER 1, 2, 3 input/output jacks
REC OUT (recording output) jacks: Accept the tape input jacks of the tape recorder.
To connect a hi-fi video cassette recorder, connect the audio line input jacks of the video cassette recorder to these jacks.
TAPE (tape input) jacks: Accept the REC output jacks of the tape recorder.
To connect a hi-fi video cassette recorder, video disc player or TV tuner, connect the audio line output jacks of each equipment to these jacks.

27 SPEAKER output terminals
Two pairs of speaker systems can be connected.
System A, system B or system A and B can be selected by means of the front panel SPEAKERS selector.

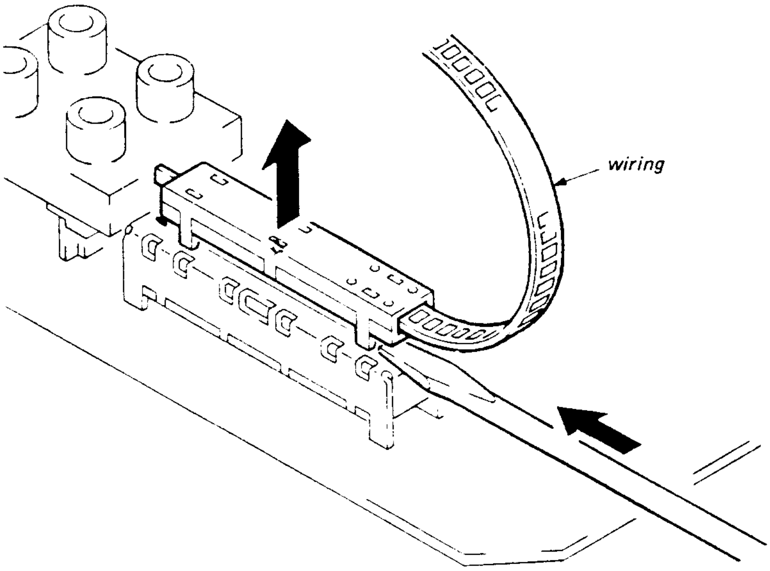
NOTE ON REPAIRING

DISASSEMBLY AND ASSEMBLY FOR SWITCH SECTION

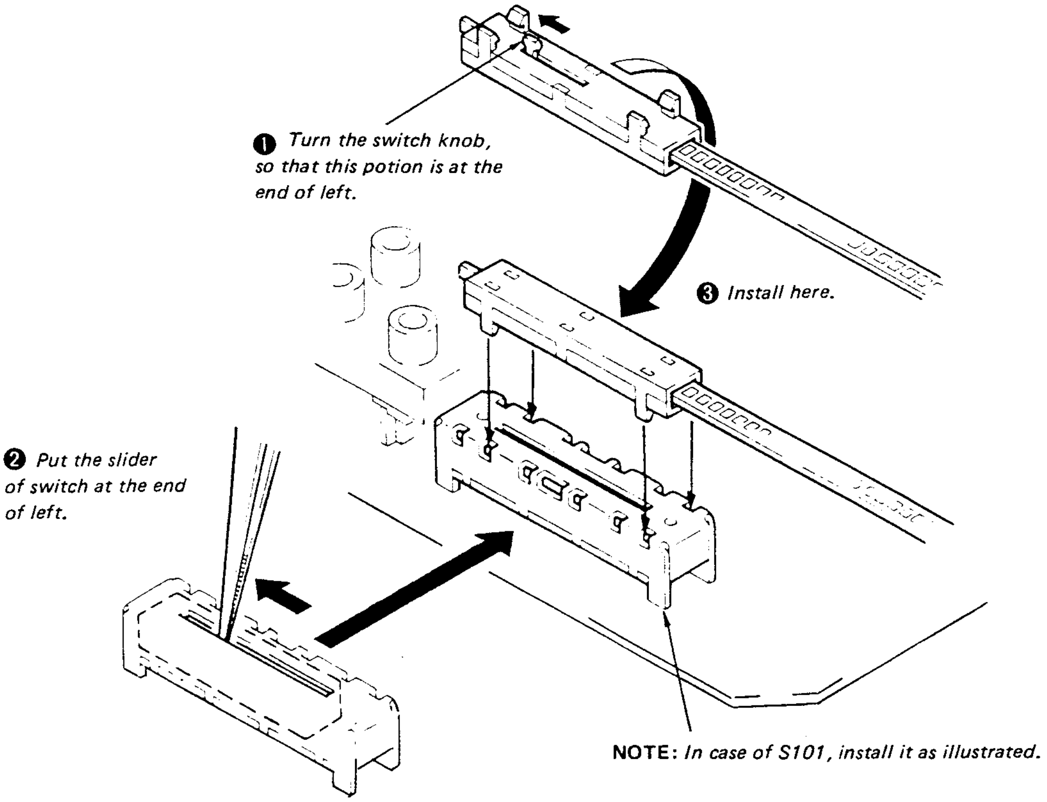
Note: Follow the assembly procedure in the numerical order given.

DISASSEMBLY

Insert in the screwdriver and remove the wiring as illustrated below
CAUTION: Don't pull the wiring. It causes the wiring damage.

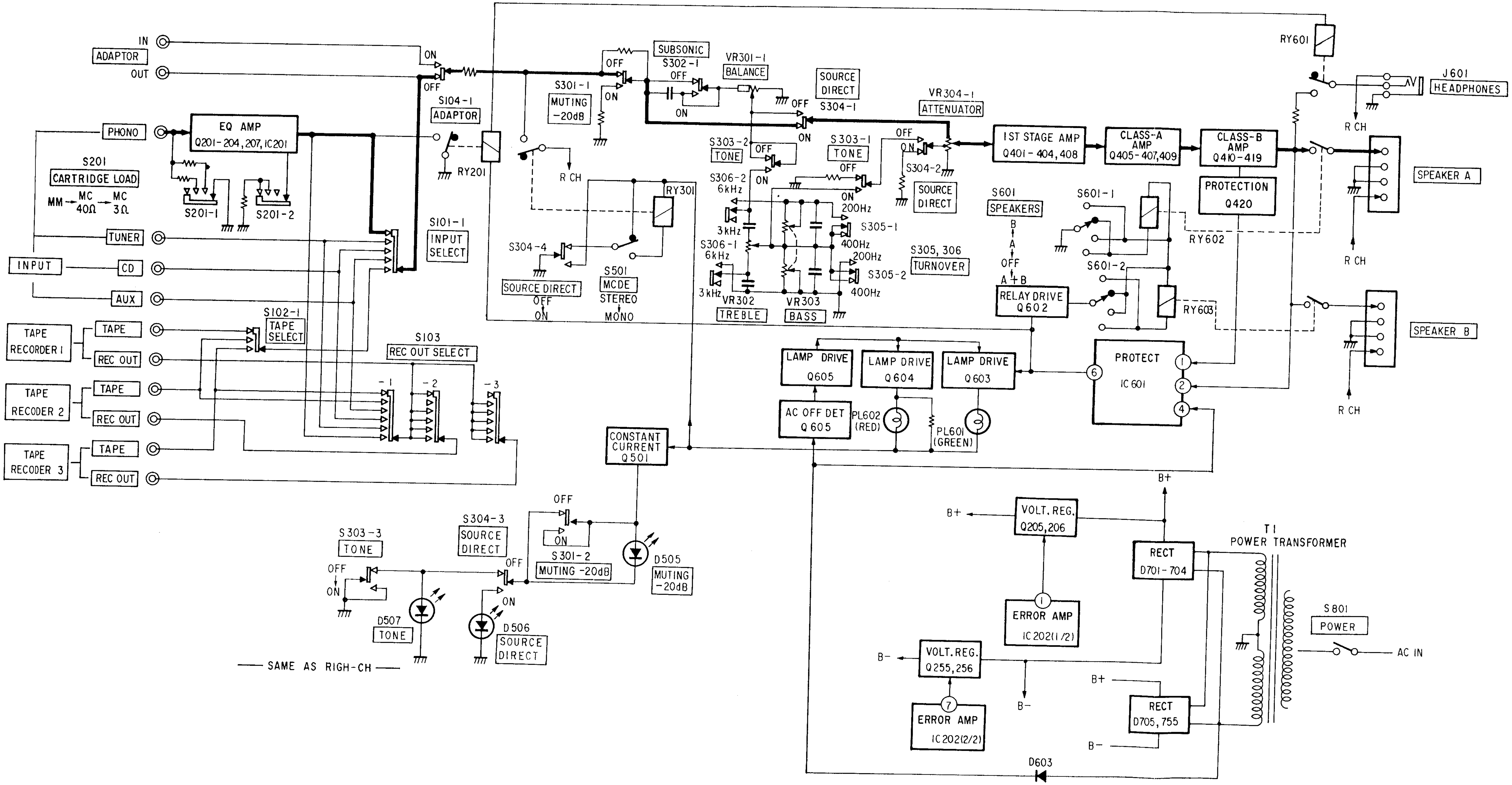


ASSEMBLY


❶ Turn the switch knob, so that this potion is at the end of left.
❷ Put the slider of switch at the end of left.
❸ Install here.

NOTE: *In case of S101, install it as illustrated.*

SECTION 1
BLOCK DIAGRAM

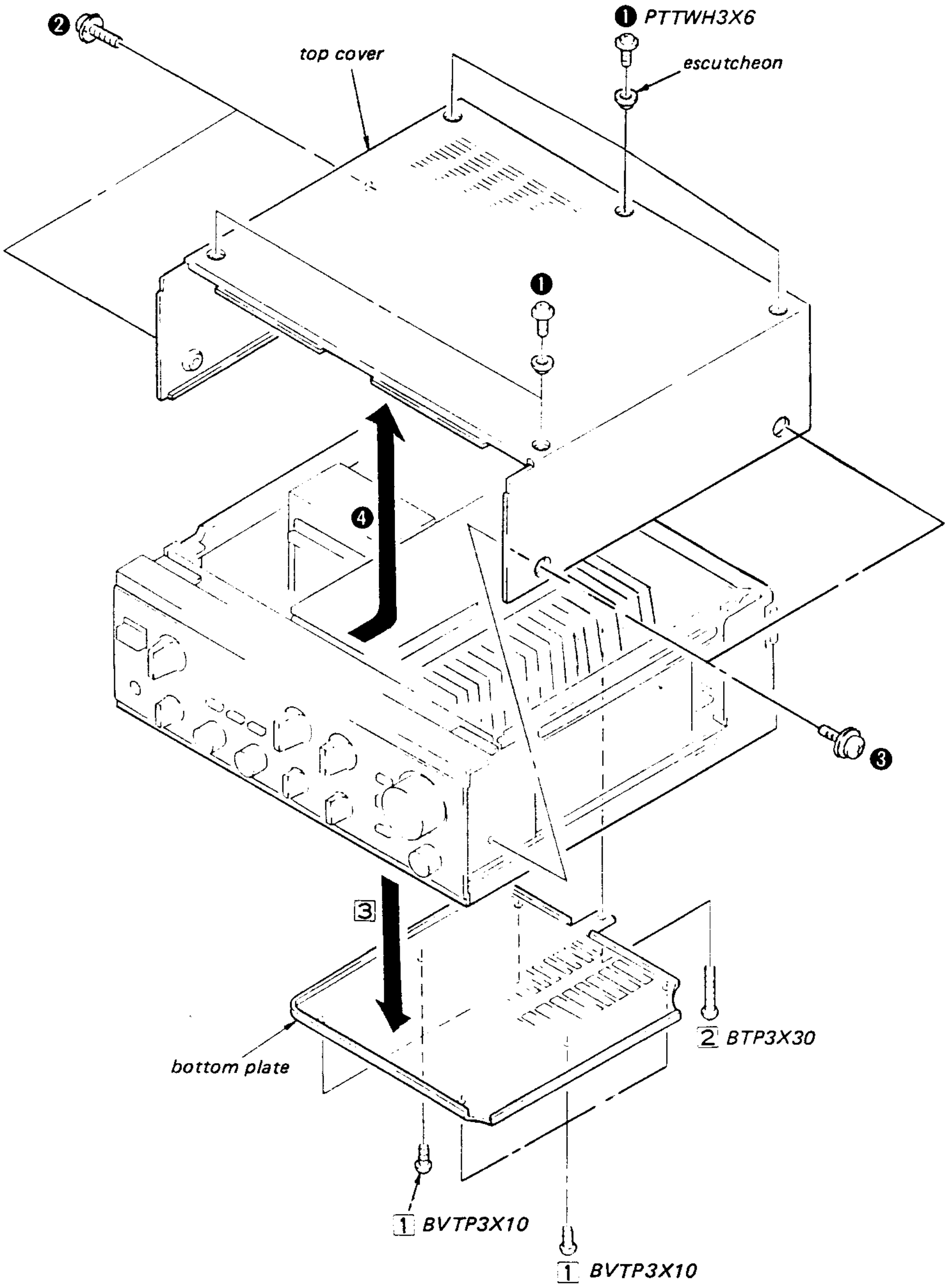

IN
ADAPTOR
OUT
ON
OFF
S104-1
ADAPTOR
PHONO
EQ AMP
Q201-204, 207, IC201
S201
CARTRIDGE LOAD
MM → MC 40Ω → MC 3Ω
S201-1
S201-2
RY201
TUNER
INPUT
CD
AUX
S101-1
INPUT SELECT
TAPE RECORDER 1
TAPE
REC OUT
TAPE RECODER 2
TAPE
REC OUT
TAPE RECODER 3
TAPE
REC OUT
S102-1
TAPE SELECT
S103
REC OUT SELECT
-1
-2
-3
S301-1
MUTING -20dB
OFF
ON
R CH
SUBSONIC
S302-1
OFF
ON
VR301-1
BALANCE
SOURCE DIRECT
S304-1
OFF
ON
RY301
S304-4
SOURCE DIRECT
OFF
ON
S501
MODE
STEREO
MONO
S303-2
TONE
OFF
ON
S306-2
6kHz
3kHz
S306-1
6kHz
3kHz
VR302
TREBLE
VR303
BASS
S303-1
TONE
OFF
ON
200Hz
S305-1
400Hz
200Hz
S305-2
400Hz
S305, 306
TURNOVER
S304-2
SOURCE DIRECT
VR304-1
ATTENUATOR
1ST STAGE AMP
Q401-404, 408
CLASS-A AMP
Q405-407, 409
CLASS-B AMP
Q410-419
PROTECTION
Q420
RY601
J601
HEADPHONES
R CH
SPEAKER A
R CH
S601
SPEAKERS
B
A
OFF
A+B
S601-1
S601-2
RY602
RY603
RELAY DRIVE
Q602
SPEAKER B
R CH
PROTECT
IC601
①
②
④
⑥
LAMP DRIVE
Q605
LAMP DRIVE
Q604
LAMP DRIVE
Q603
AC OFF DET
Q605
PL602
(RED)
PL601
(GREEN)
CONSTANT CURRENT
Q501
S304-3
SOURCE DIRECT
OFF
ON
S301-2
MUTING -20dB
D505
MUTING -20dB
S303-3
TONE
OFF
ON
D507
TONE
D506
SOURCE DIRECT
SAME AS RIGH-CH
B+
VOLT. REG.
Q205, 206
B+
ERROR AMP
IC202(1/2)
①
RECT
D701-704
T1
POWER TRANSFORMER
S801
POWER
AC IN
B-
VOLT. REG.
Q255, 256
⑦
ERROR AMP
IC202(2/2)
B-
B+
RECT
D705, 755
B-
D603

SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

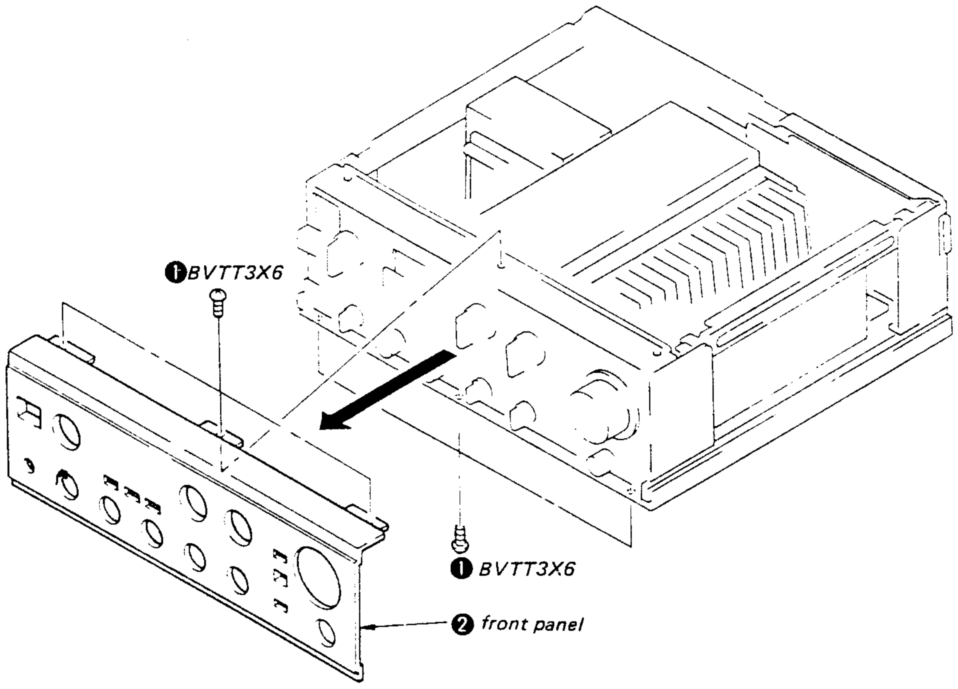
TOP COVER AND BOTTOM PLATE REMOVAL

TOP COVER : ❶~❹
BOTTOM PLATE : 1~3

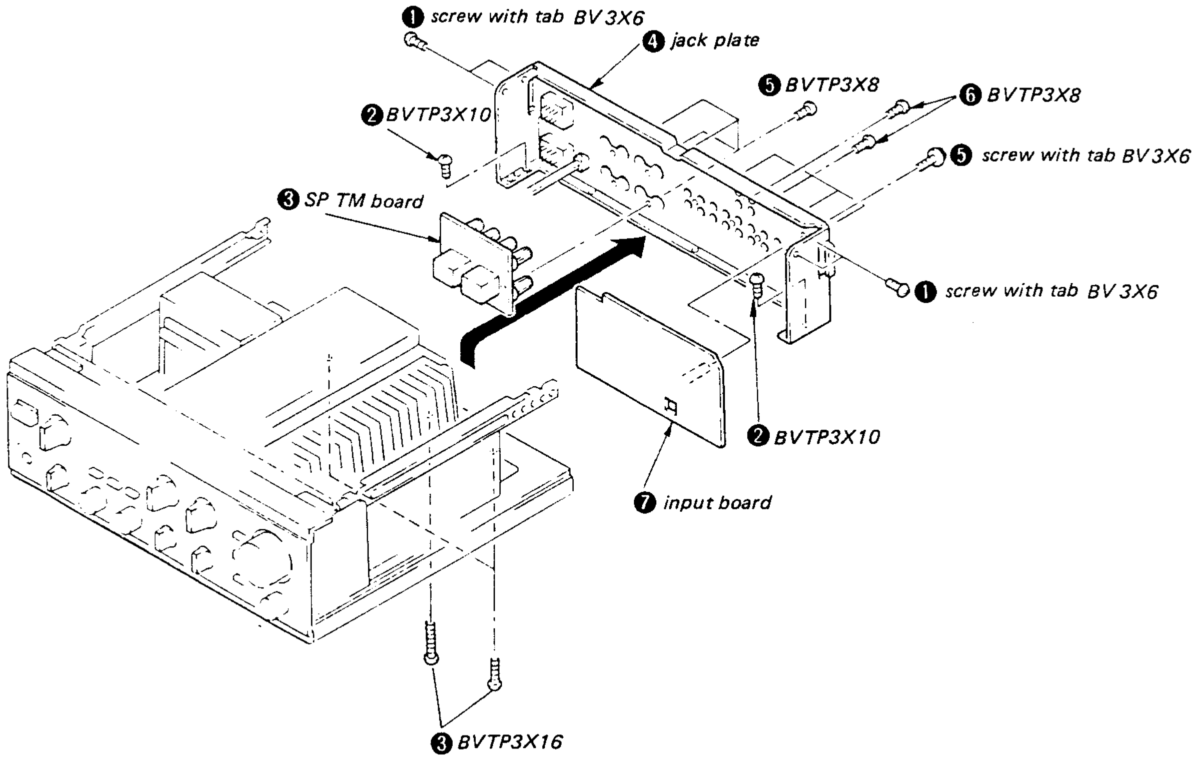


❷
top cover
❶ PTTWH3X6
escutcheon
❶
❹
❸
3
bottom plate
2 BTP3X30
1 BVTP3X10
1 BVTP3X10

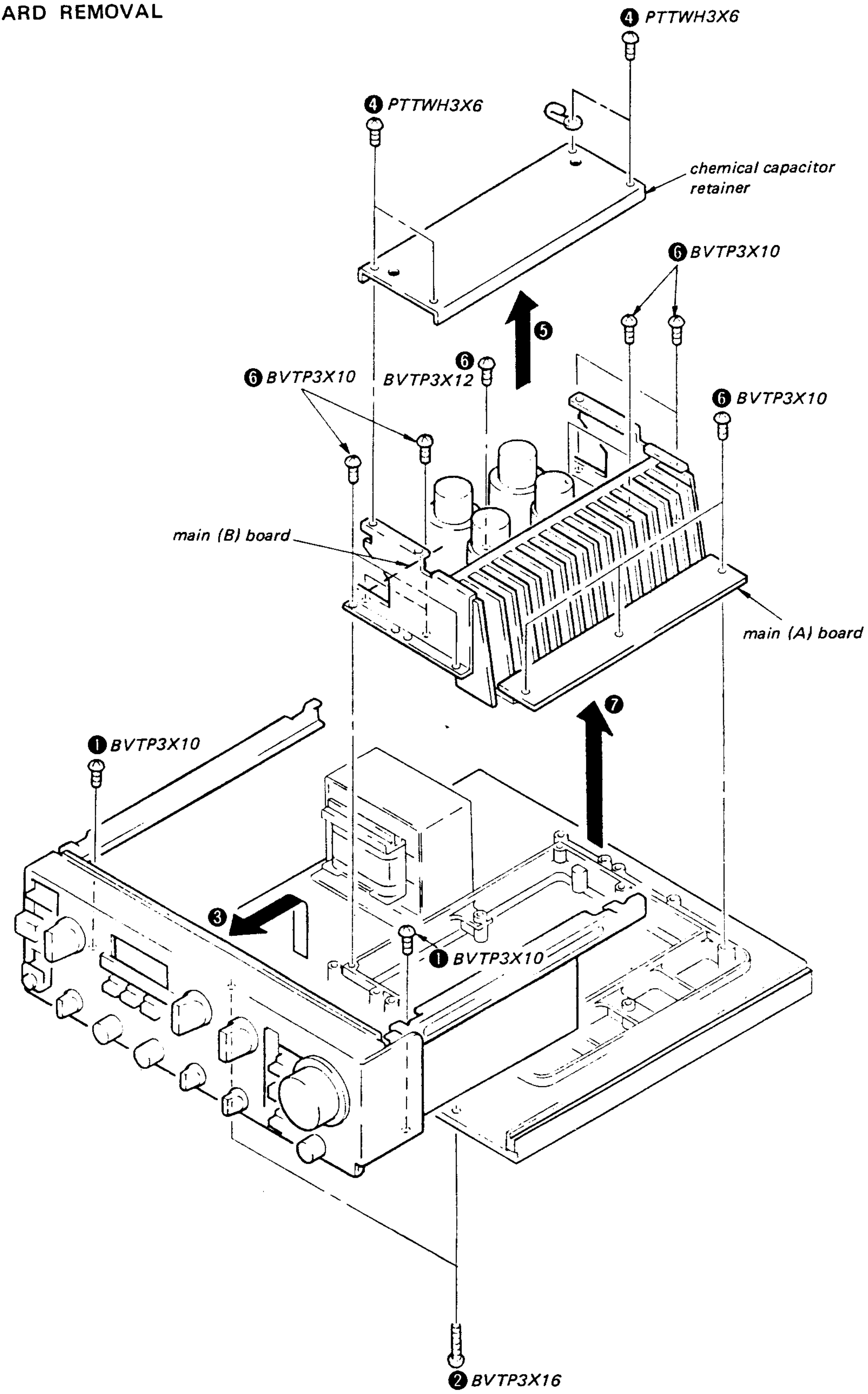
FRONT PANEL REMOVAL


❶BVTT3X6
❶ BVTT3X6
❷ front panel

JACK PLATE REMOVAL


❶ screw with tab BV3X6
❹ jack plate
❺ BVTP3X8
❻ BVTP3X8
❷BVTP3X10
❺ screw with tab BV3X6
❸ SP TM board
❶ screw with tab BV3X6
❷ BVTP3X10
❼ input board
❸ BVTP3X16

MAIN BOARD REMOVAL

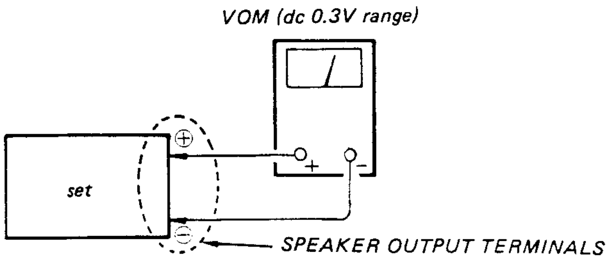

❹ PTTWH3X6
❹ PTTWH3X6
chemical capacitor retainer
❻ BVTP3X10
❺
❻ BVTP3X12
❻ BVTP3X10
❻ BVTP3X10
main (B) board
main (A) board
❼
❶ BVTP3X10
❸
❶ BVTP3X10
❷ BVTP3X16

SECTION 3
ADJUSTMENTS

NOTE:

- Adjustments should be performed 10 minutes after the POWER switch is on (POWER ON).

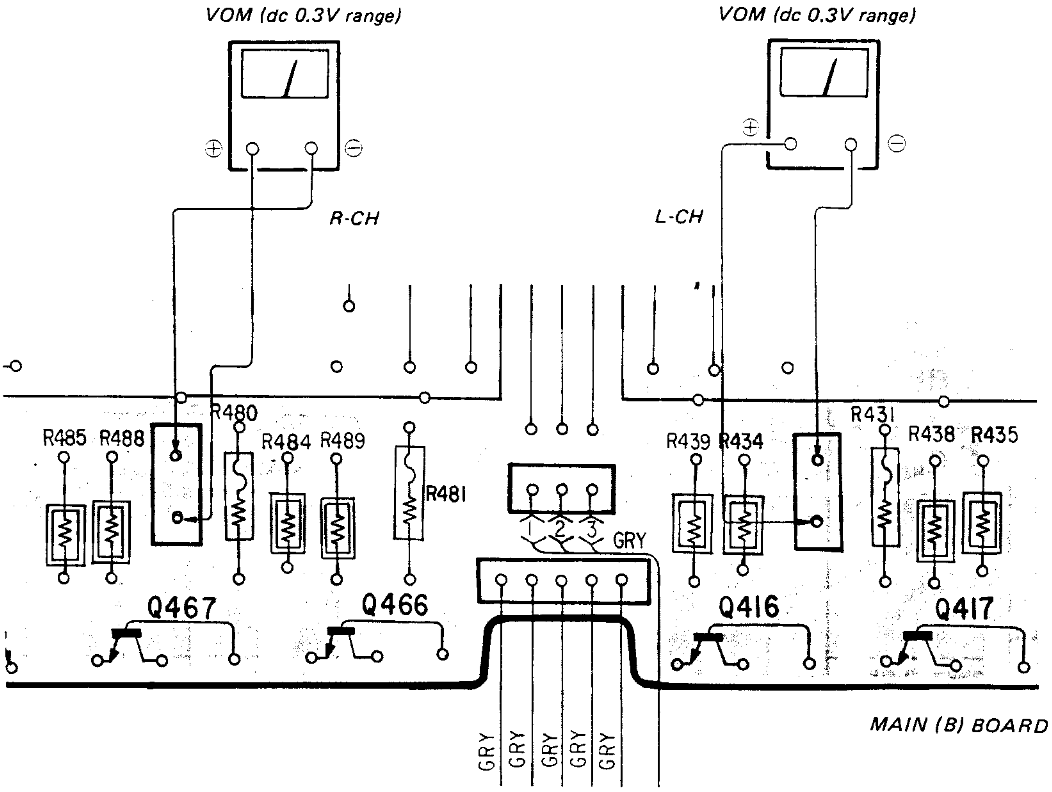
OFFSET Adjustment


VOM (dc 0.3V range)
set
⊕
⊖
+
−
SPEAKER OUTPUT TERMINALS

1. Turn the ATTENUATOR knob fully counterclockwise under no-signal conditions.
2. Adjust RT401 and RT451 for 0V readings VOM.

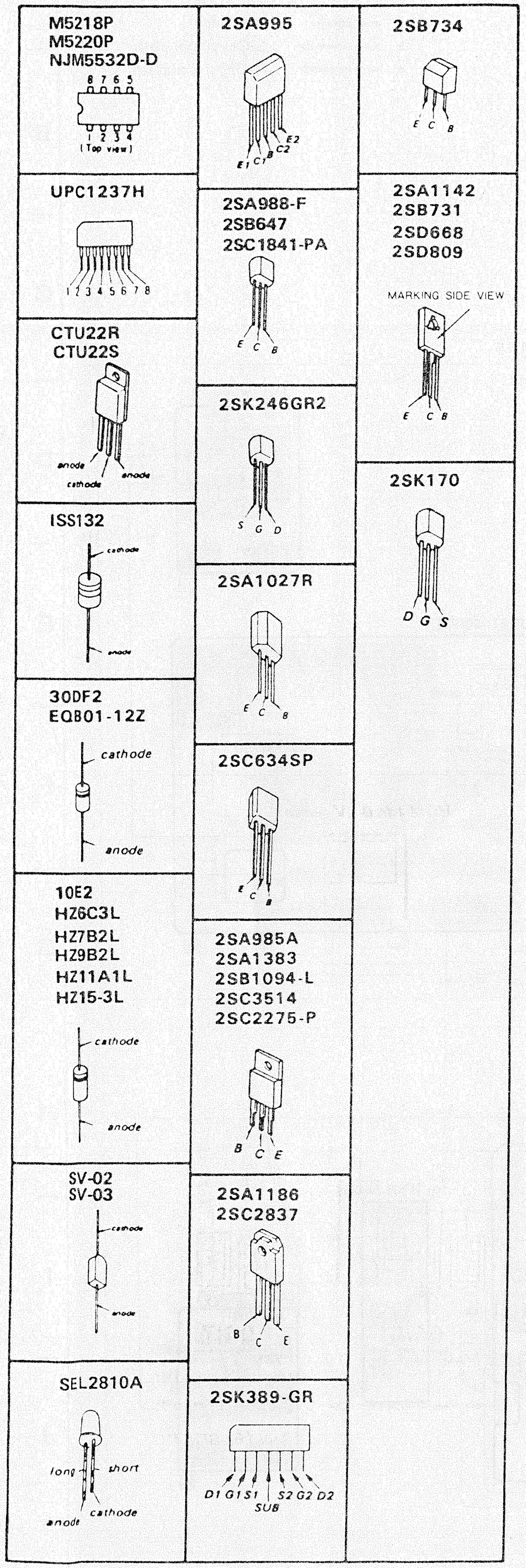
DC BIAS Adjustment

1. Turn the ATTENUATOR knob fully counterclockwise under no-signal conditions.
2. Adjust RT402 and RT452 for 15mV readings on VOM.


VOM (dc 0.3V range)
VOM (dc 0.3V range)
⊕
⊖
R-CH
L-CH
R485
R488
R480
R484
R489
R481
R439
R434
R431
R438
R435
1
2
3
GRY
Q467
Q466
Q416
Q417
GRY
GRY
GRY
GRY
GRY
MAIN (B) BOARD

SECTION 4
DIAGRAMS

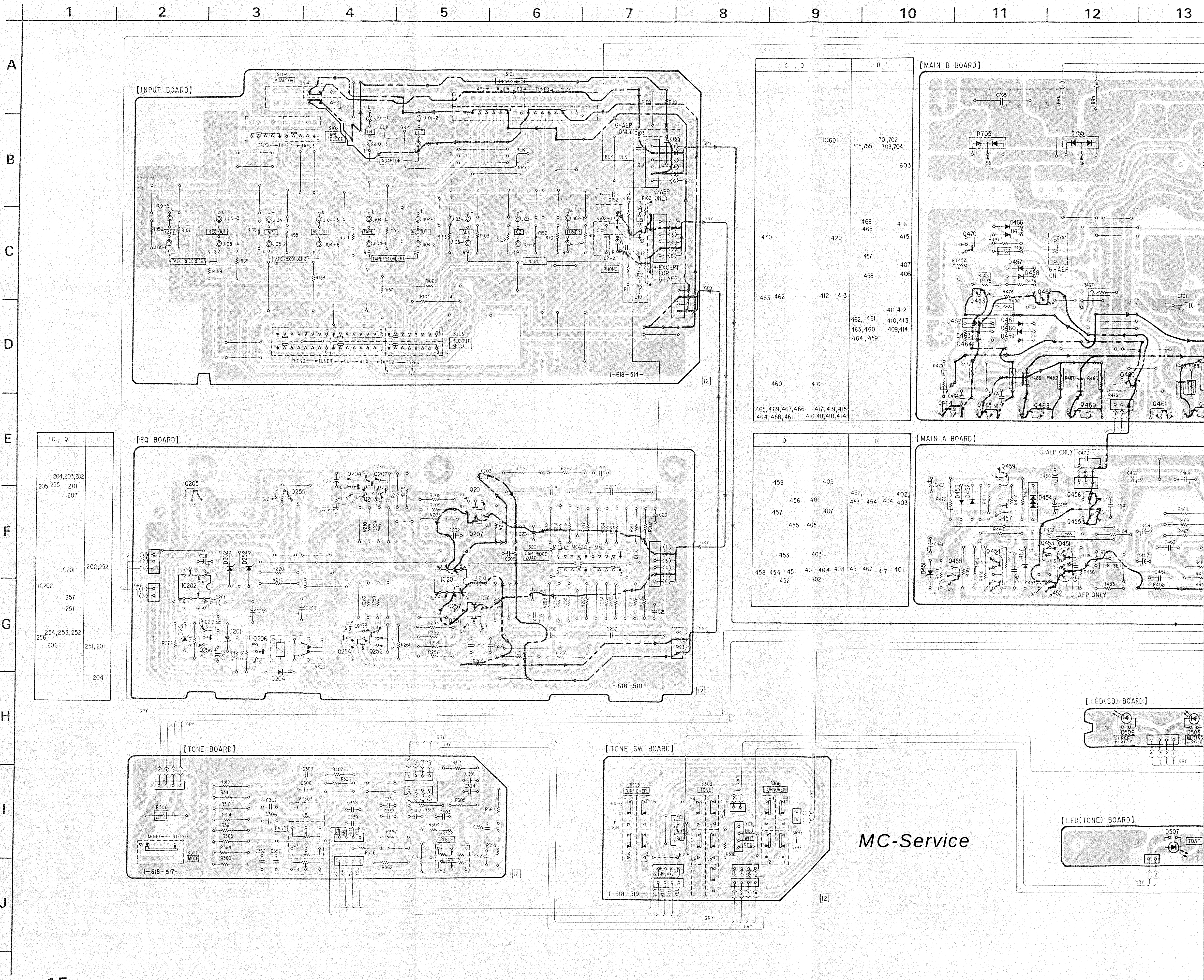
- **SEMICONDUCTOR LEAD LAYOUTS**



M5218P
M5220P
NJM5532D-D
8 7 6 5
1 2 3 4
(Top view)
UPC1237H
1 2 3 4 5 6 7 8
CTU22R
CTU22S
anode
cathode
anode
ISS132
cathode
anode
30DF2
EQB01-12Z
cathode
anode
10E2
HZ6C3L
HZ7B2L
HZ9B2L
HZ11A1L
HZ15-3L
cathode
anode
SV-02
SV-03
cathode
anode
SEL2810A
long
short
anode
cathode
2SA995
E1 C1 B C2 E2
2SA988-F
2SB647
2SC1841-PA
E C B
2SK246GR2
S G D
2SA1027R
E C B
2SC634SP
E C B
2SA985A
2SA1383
2SB1094-L
2SC3514
2SC2275-P
B C E
2SA1186
2SC2837
B C E
2SK389-GR
D1 G1 S1 S2 G2 D2
SUB
2SB734
E C B
2SA1142
2SB731
2SD668
2SD809
MARKING SIDE VIEW
E C B
2SK170
D G S

4-1. MOUNTING DIAGRAM *– Conductor Side –*

- See page 22 for circuit boards location.

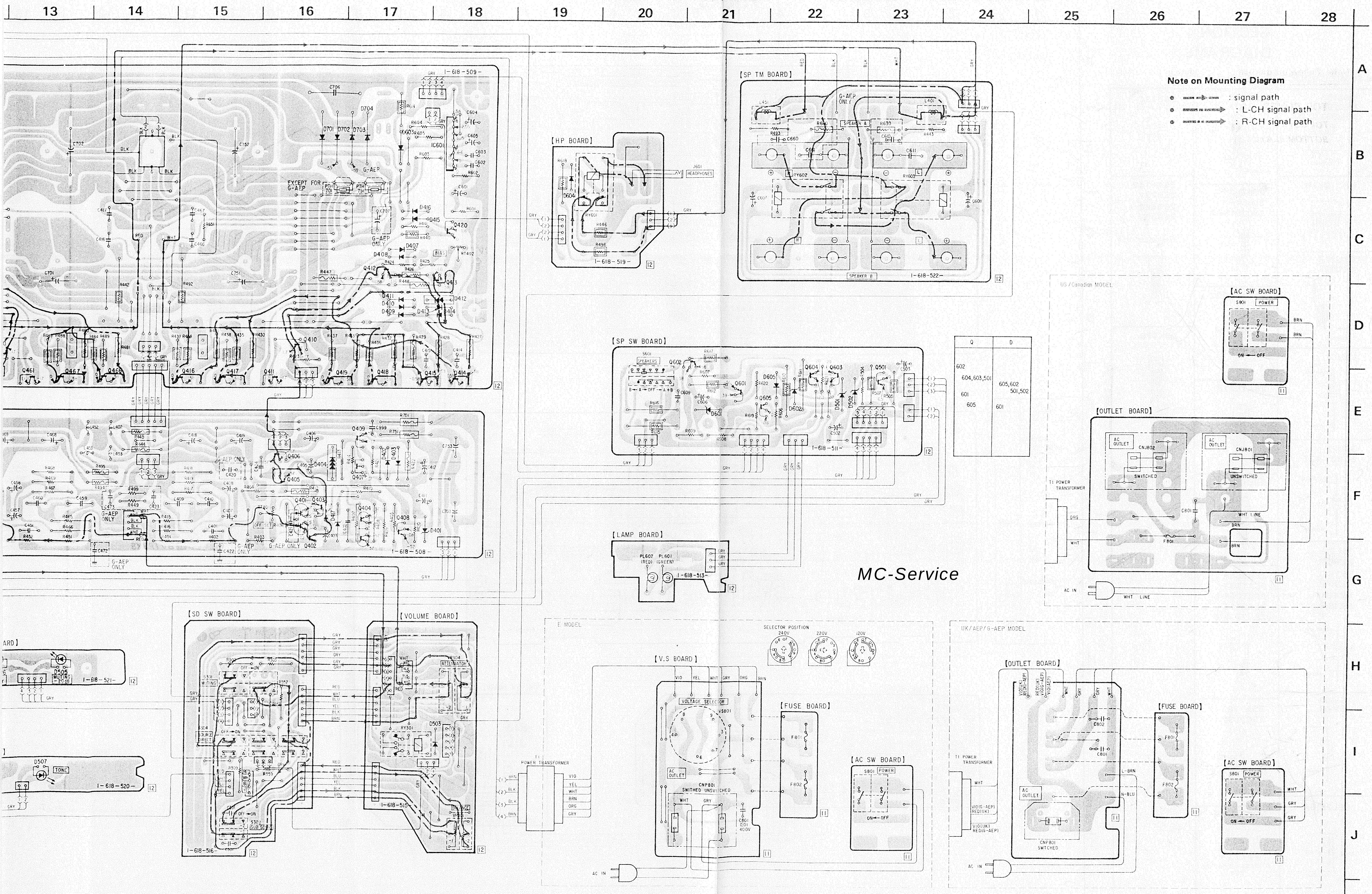


1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
I
J
[INPUT BOARD]
1-618-514-
[EQ BOARD]
1-618-510-
[TONE BOARD]
1-618-517-
[TONE SW BOARD]
1-618-519-
[MAIN B BOARD]
[MAIN A BOARD]
[LED(SD) BOARD]
[LED(TONE) BOARD]
12

IC, Q	D
204,203,202	
205 255 201	
207	
IC201	202,252
IC202	
257	
251	
256 254,253,252	
206	251, 201
	204

IC, Q	D
IC601	701,702
	705,755 703,704
	603
	466 416
	465
470 420	415
	457
	407
	458 408
463 462 412 413	
	411,412
	462, 461 410,413
	463,460 409,414
	464, 459
460 410	
465,469,467,466 417,419,415	
464,468,461 416,411,418,414	

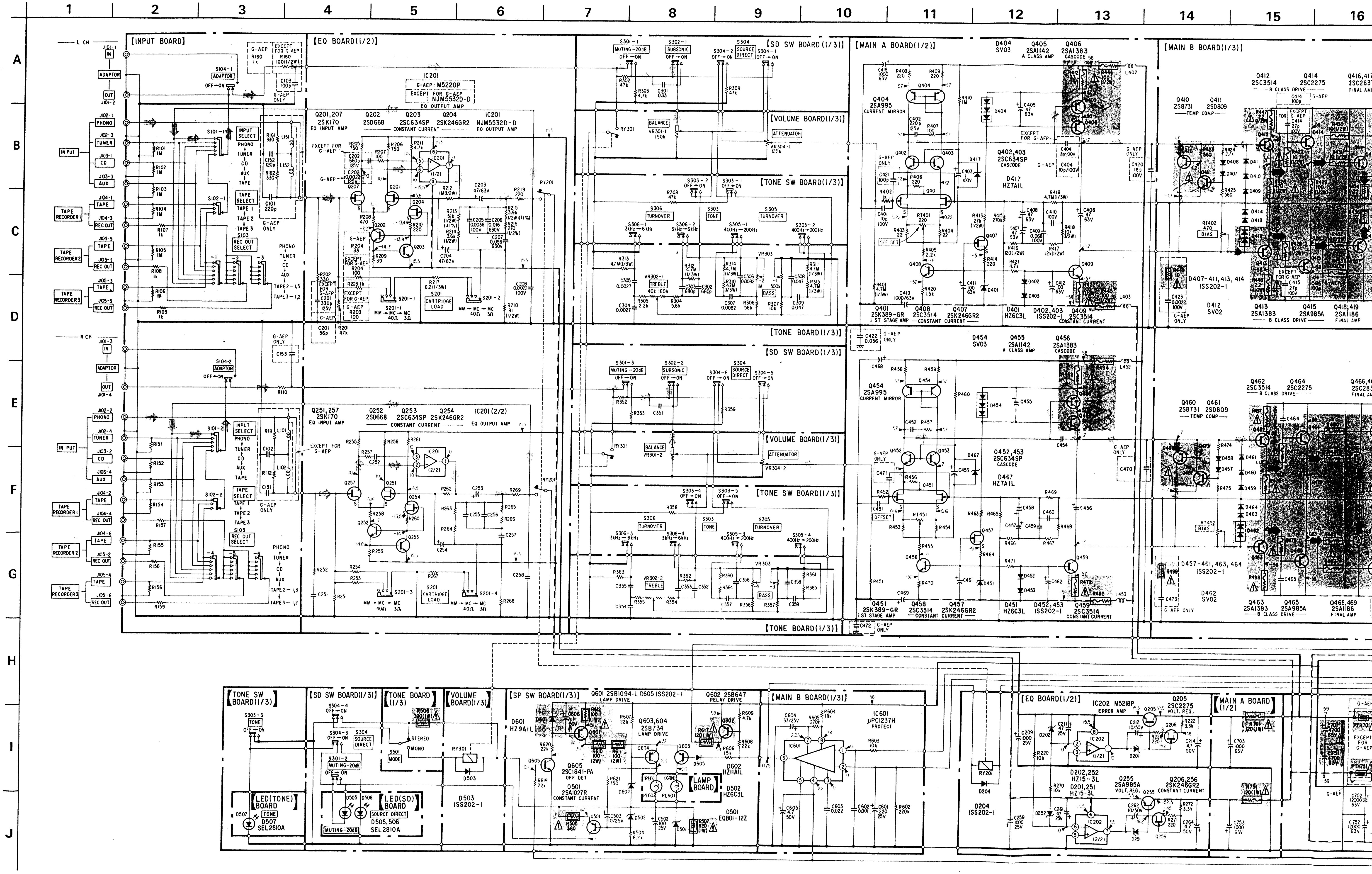
Q	D
459 409	
456 406	452, 402,
	453 454 404 403
457 407	
455 405	
453 403	
458 454 451 401 404 408	451 467 417 401
452 402	

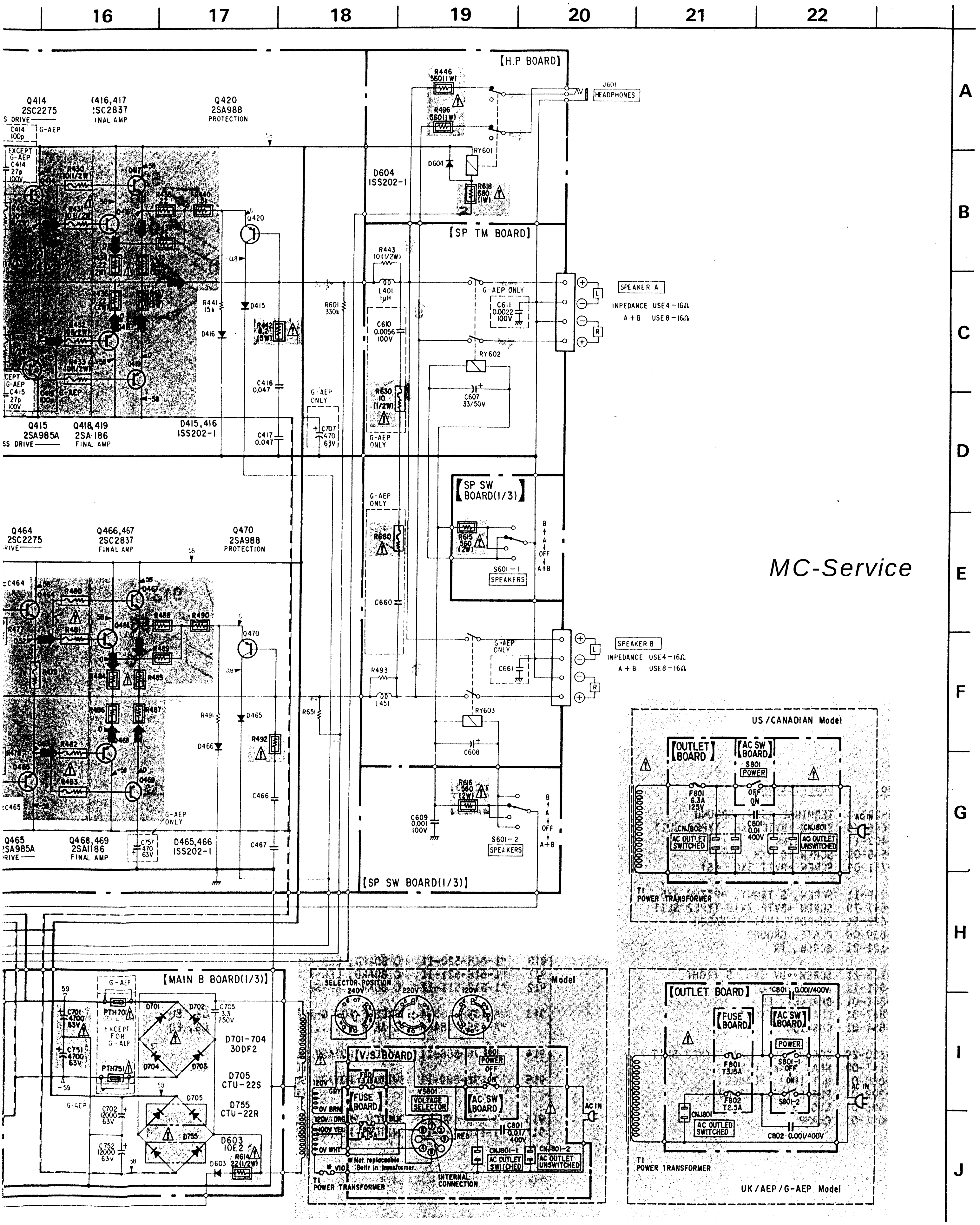

13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
A
B
C
D
E
F
G
H
I
J
1-618-509-
1-618-508-
[HP BOARD]
1-618-519-
HEADPHONES
[SP TM BOARD]
SPEAKER A
SPEAKER B
1-618-522-
[SP SW BOARD]
1-618-511-
[LAMP BOARD]
PL602 (RED)
PL601 (GREEN)
1-618-513-
[SD SW BOARD]
1-618-516-
[VOLUME BOARD]
1-618-515
MUTING
1-618-521-
TONE
1-618-520-
EXCEPT FOR G-AEP
G-AEP ONLY
US/Canadian MODEL
[AC SW BOARD]
POWER
ON ← OFF
[OUTLET BOARD]
AC OUTLET
SWITCHED
UNSWITCHED
T1 POWER TRANSFORMER
AC IN
WHT LINE
E MODEL
SELECTOR POSITION
240V
220V
120V
[V.S BOARD]
VOLTAGE SELECTOR
[FUSE BOARD]
UK/AEP/G-AEP MODEL
Q
D
602
604,603,501
605,602
501,502
601
605
601

Note on Mounting Diagram

- : signal path
- : L-CH signal path
- : R-CH signal path

4-2. SCHEMATIC DIAGRAM


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
[INPUT BOARD]
L CH
R CH
IN PUT
PHONO
TUNER
CD
AUX
TAPE
REC OUT
ADAPTOR
TAPE RECORDER1
TAPE RECORDER2
TAPE RECORDER3
INPUT SELECT
TAPE SELECT
REC OUT SELECT
S101-1
S102-1
S103
S104-1
S101-2
S102-2
S104-2
[EQ BOARD(1/2)]
IC201 G-AEP: M5220P EXCEPT FOR G-AEP : NJM5532D-D EQ OUTPUT AMP
Q201,207 2SK170 EQ INPUT AMP
Q202 2SD668
Q203 2SC634SP
Q204 2SK246GR2 CONSTANT CURRENT
IC201 NJM5532D-D EQ OUTPUT AMP
Q251,257 2SK170 EQ INPUT AMP
Q252 2SD668
Q253 2SC634SP
Q254 2SK246GR2
IC201(2/2) EQ OUTPUT AMP
S201 CARTRIDGE LOAD
MM — MC — MC 40Ω 3Ω
RY201
[SD SW BOARD(1/3)]
S301-1 MUTING -20dB
S302-1 SUBSONIC
S304 SOURCE DIRECT
[VOLUME BOARD(1/3)]
BALANCE VR301-1
ATTENUATOR VR304-1
[TONE SW BOARD(1/3)]
S306 TURNOVER
S303 TONE
S305 TURNOVER
3kHz — 6kHz
400Hz — 200Hz
VR302-1 TREBLE
VR303 BASS
[TONE BOARD(1/3)]
RY301
[MAIN A BOARD(1/2)]
D404 SV03
Q405 2SA1142 A CLASS AMP
Q406 2SA1383 CASCODE
Q404 2SA995 CURRENT MIRROR
Q402,403 2SC634SP CASCODE
D417 HZ7AIL
Q401 2SK389-GR 1ST STAGE AMP
Q408 2SC3514 CONSTANT CURRENT
Q407 2SK246GR2
D401 HZ6C3L
D402,403 1SS202-1
Q409 2SC3514 CONSTANT CURRENT
D454 SV03
Q455 2SA1142 A CLASS AMP
Q456 2SA1383 CASCODE
Q454 2SA995 CURRENT MIRROR
Q452,453 2SC634SP CASCODE
D467 HZ7AIL
Q451 2SK389-GR 1ST STAGE AMP
Q458 2SC3514 CONSTANT CURRENT
Q457 2SK246GR2
D451 HZ6C3L
D452,453 1SS202-1
Q459 2SC3514 CONSTANT CURRENT
[MAIN B BOARD(1/3)]
Q410 2SB731 Q411 2SD809 TEMP COMP
Q412 2SC3514 Q414 2SC2275 B CLASS DRIVE
Q416,417 2SC283 FINAL AMP
Q413 2SA1383 Q415 2SA985A B CLASS DRIVE
Q418,419 2SA1186 FINAL AMP
D407-411, 413, 414 1SS202-1
D412 SV02
RT402 BIAS
Q460 2SB731 Q461 2SD809 TEMP COMP
Q462 2SC3514 Q464 2SC2275 B CLASS DRIVE
Q463 2SA1383 Q465 2SA985A B CLASS DRIVE
Q468,469 2SA1186 FINAL AMP
D457-461, 463, 464 1SS202-1
D462 SV02
RT452 BIAS
G-AEP ONLY
EXCEPT FOR G-AEP
[TONE SW BOARD(1/3)]
S303-3 TONE
[SD SW BOARD(1/3)]
S304-4
S304-3 S304 SOURCE DIRECT
S501 MODE STEREO MONO
S301-2 MUTING-20dB
[TONE BOARD (1/3)]
[VOLUME BOARD(1/3)]
[LED(TONE) BOARD]
D507 SEL2810A
[LED(SD) BOARD]
D505,506 SEL2810A
D503 1SS202-1
[SP SW BOARD(1/3)]
Q601 2SB1094-L D605 1SS202-1 LAMP DRIVE
Q602 2SB647 RELAY DRIVE
D601 HZ9AIL
Q603,604 2SB734 LAMP DRIVE
Q605 2SC1841-PA OFF DET
Q501 2SA1027R CONSTANT CURRENT
D602 HZ11AIL
D502 HZ6C3L
D501 EQB01-12Z
[LAMP BOARD]
PL601 PL602
[MAIN B BOARD(1/3)]
IC601 μPC1237H PROTECT
RY201
D204 1SS202-1
[EQ BOARD(1/2)]
IC202 M5218P ERROR AMP
Q205 2SC2275 VOLT. REG.
D202,252 HZ15-3L
D201,251 HZ15-3L
Q255 2SA985A VOLT. REG.
Q206,256 2SK246GR2 CONSTANT CURRENT
[MAIN A BOARD (1/2)]


16
17
18
19
20
21
22
A
B
C
D
E
F
G
H
I
J
Q414
2SC2275
(416,417
2SC2837
FINAL AMP
Q420
2SA988
PROTECTION
[H.P BOARD]
R446
560(1W)
R496
560(1W)
J601
HEADPHONES
RY601
D604
1SS202-1
R618
680
(1W)
[SP TM BOARD]
R443
10(1/2W)
L401
1μH
C610
0.0056
100V
G-AEP ONLY
C611
0.0022
100V
SPEAKER A
INPEDANCE USE4–16Ω
A+B USE8–16Ω
RY602
R630
10
(1/2W)
C607
33/50V
R441
15k
D415
D416
R601
330k
C416
0.047
C417
0.047
Q415
2SA985A
Q418,419
2SA1186
FINAL AMP
D415,416
1SS202-1
G-AEP ONLY
C707
470
63V
[SP SW BOARD(1/3)]
R615
560
(2W)
S601-1
SPEAKERS
OFF
A+B
R680
C660
Q464
2SC2275
Q466,467
2SC2837
FINAL AMP
Q470
2SA988
PROTECTION
R491
D465
R492
D466
R651
R493
L451
SPEAKER B
INPEDANCE USE4–16Ω
A+B USE8–16Ω
C661
RY603
C608
R616
560
(2W)
S601-2
SPEAKERS
C609
0.001
100V
C466
C467
Q465
2SA985A
Q468,469
2SA1186
FINAL AMP
C757
470
63V
D465,466
1SS202-1
US/CANADIAN Model
[OUTLET BOARD]
[AC SW BOARD]
S801
POWER
F801
6.3A
125V
C801
0.01
400V
CNJ802
AC OUTLET SWITCHED
CNJ801
AC OUTLET UNSWITCHED
AC IN
T1
POWER TRANSFORMER
[MAIN B BOARD(1/3)]
C701
4700
63V
PTH701
EXCEPT FOR G-AEP
C751
4700
63V
PTH751
D701
D702
D703
D704
C705
3.3
250V
D701-704
30DF2
D705
CTU-22S
D755
CTU-22R
C702
12000
63V
C752
12000
63V
D603
10E2
R614
22(1/2W)
SELECTOR POSITION
240V
220V
120V
E Model
[V.S BOARD]
[FUSE BOARD]
VS801
VOLTAGE SELECTOR
[AC SW BOARD]
S801
POWER
C801
0.01
400V
CNJ801-1
AC OUTLET SWITCHED
CNJ801-2
AC OUTLET UNSWITCHED
AC IN
Not replaceable
Built in transformer.
INTERNAL CONNECTION
T1
POWER TRANSFORMER
[OUTLET BOARD]
C801 0.001/400V
[FUSE BOARD]
[AC SW BOARD]
POWER
F801
T3.15A
S801-1
OFF
ON
F802
T2.5A
S801-2
CNJ801
AC OUTLED SWITCHED
C802 0.001/400V
AC IN
T1
POWER TRANSFORMER
UK/AEP/G-AEP Model

Note on Schematic Diagram

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ⇨ : signal path.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

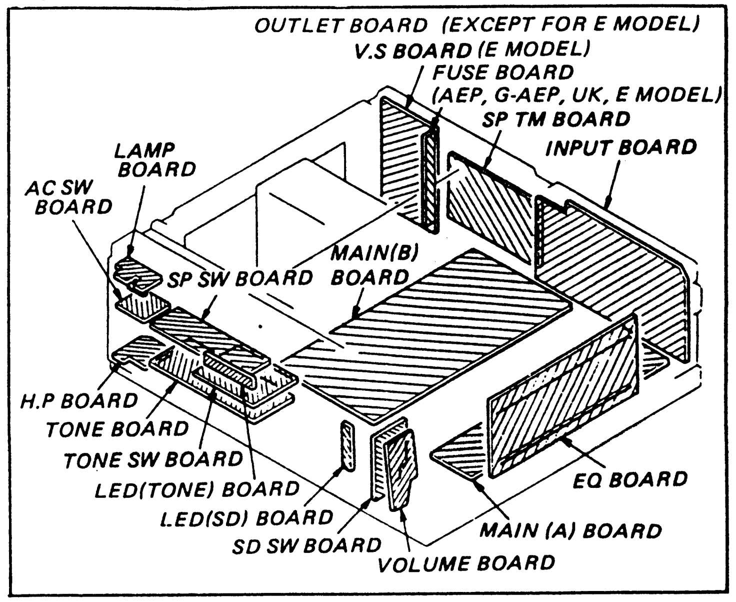
Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Components for right channel have same values as for left channel.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- Switch

Ref. No.	Switch	Position
S101	INPUT SELECT	PHONE
S102	TAPE SELECT	TAPE 1
S103	REC OUT SELECT	PHONO
S104	ADAPTOR	OFF
S201	CARTRIDGE LOAD	MM
S301	MUTING –20dB	OFF
S302	SUBSONIC	OFF
S303	TONE	OFF
S304	SOURCE DIRECT	OFF
S305	TURN OVER	400Hz
S306	TURN OVER	3kHz
S501	MODE	STEREO
S601	SPEAKER	A
S801	POWER	OFF
VS809	VOLTAGE SELECTOR (E MODEL)	–

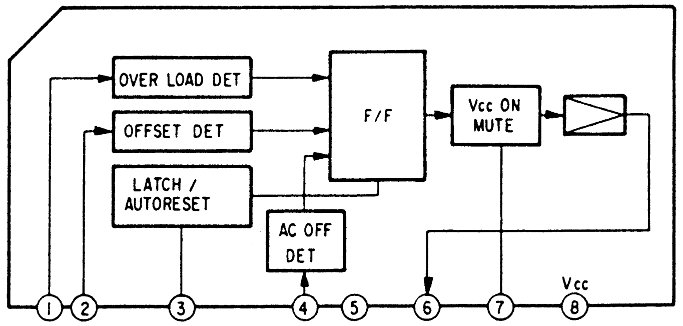
- ━━━ : B+ bus.
- ━ ━ ━ : B– bus.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
- Voltage variations may be noted due to normal production tolerances.

• CIRCUIT BOARDS LOCATION

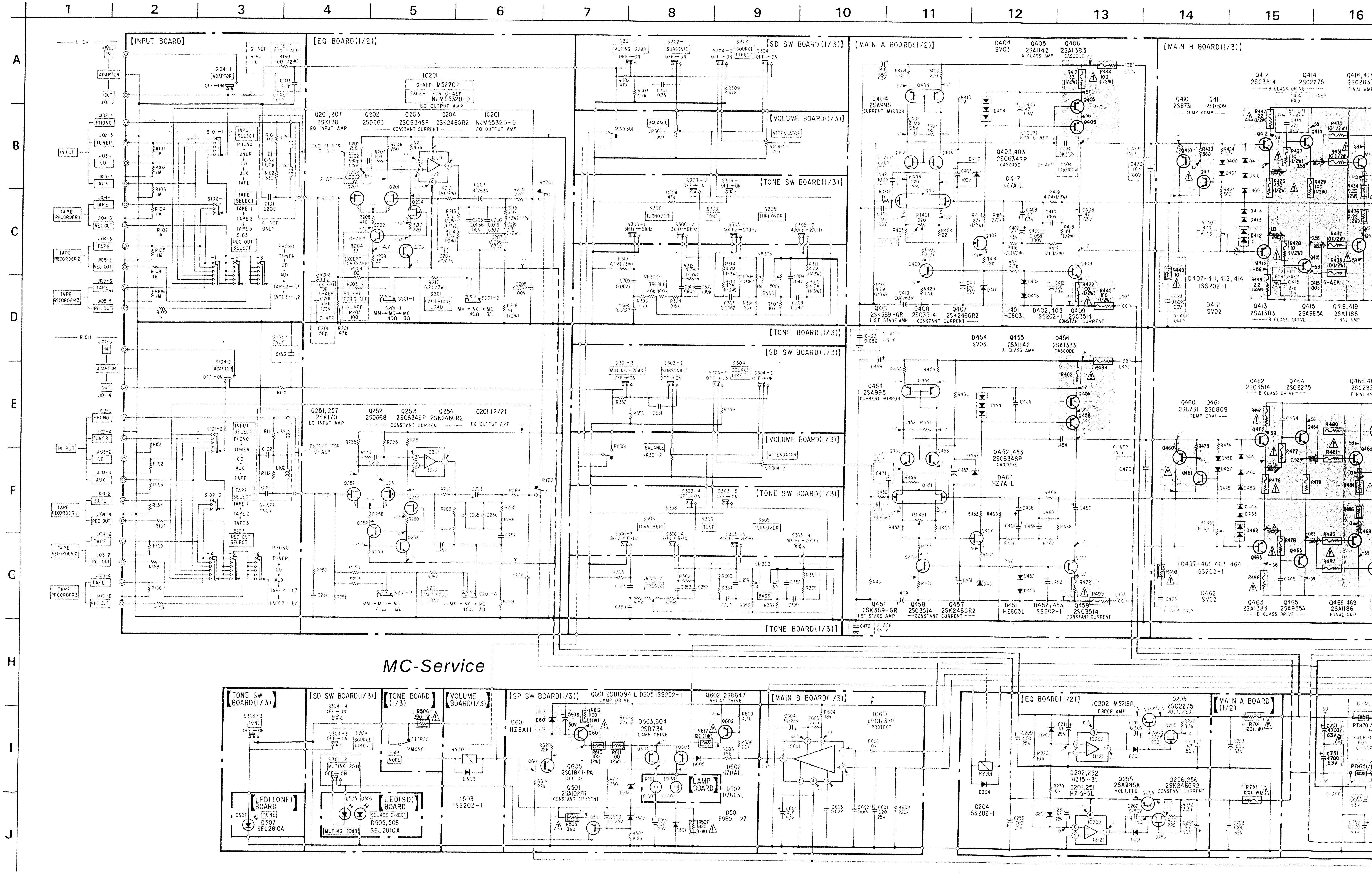

OUTLET BOARD (EXCEPT FOR E MODEL)
V.S BOARD (E MODEL)
FUSE BOARD
(AEP, G-AEP, UK, E MODEL)
SP TM BOARD
INPUT BOARD
LAMP BOARD
AC SW BOARD
MAIN(B) BOARD
SP SW BOARD
H.P BOARD
TONE BOARD
TONE SW BOARD
LED(TONE) BOARD
LED(SD) BOARD
SD SW BOARD
EQ BOARD
MAIN (A) BOARD
VOLUME BOARD

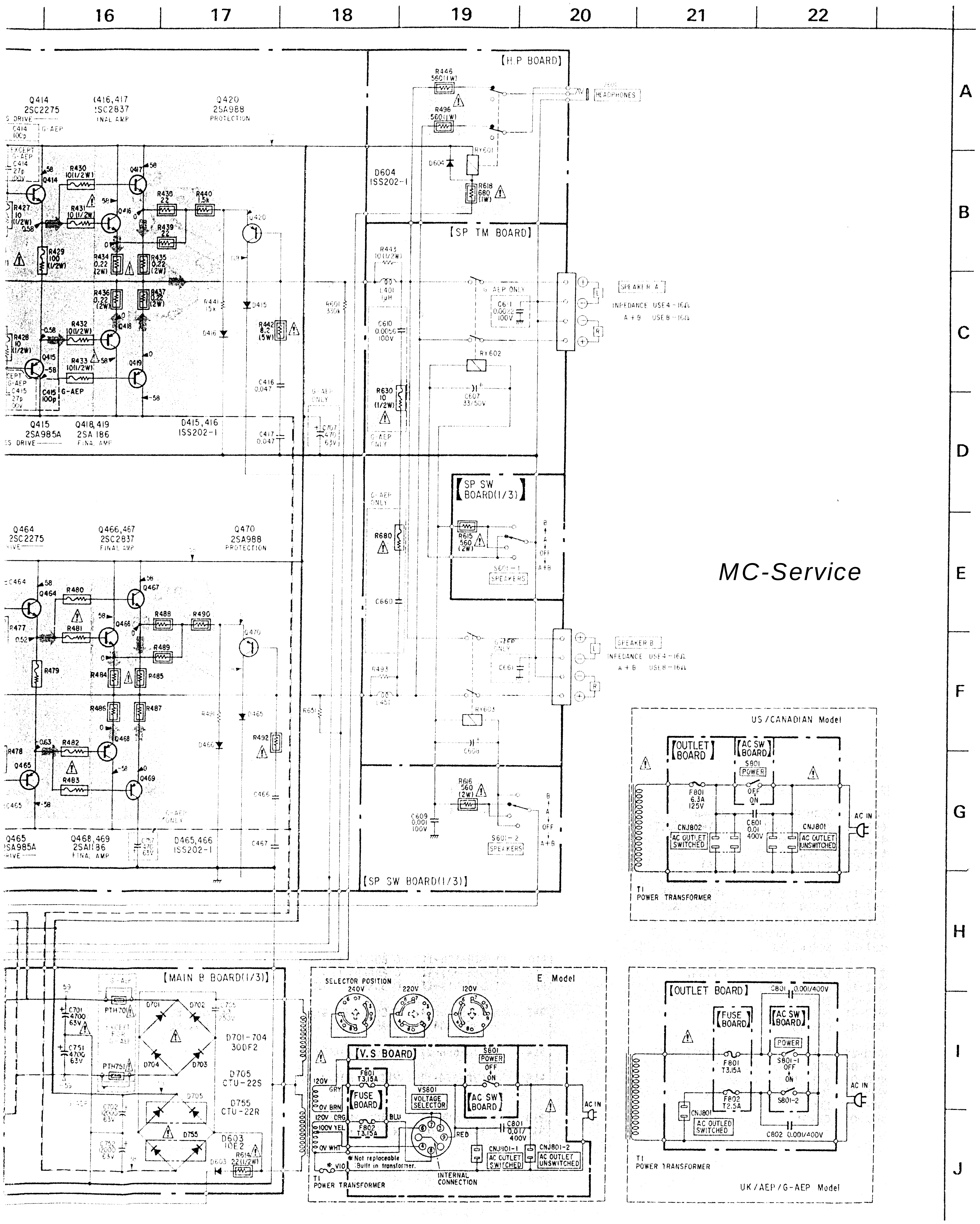
IC BLOCK DIAGRAM

μPC1237H


OVER LOAD DET
OFFSET DET
LATCH / AUTORESET
AC OFF DET
F/F
Vcc ON MUTE
Vcc
1
2
3
4
5
6
7
8

4-2. SCHEMATIC DIAGRAM


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J
L CH
R CH
[INPUT BOARD]
[EQ BOARD(1/2)]
[SD SW BOARD(1/3)]
[MAIN A BOARD(1/2)]
[MAIN B BOARD(1/3)]
[VOLUME BOARD(1/3)]
[TONE SW BOARD(1/3)]
[TONE BOARD(1/3)]
IC201 G-AEP: M5220P EXCEPT FOR G-AEP: NJM5532D-D EQ OUTPUT AMP
Q201,207 2SK170 EQ INPUT AMP
Q202 2SD668
Q203 2SC634SP Q204 2SK246GR2 CONSTANT CURRENT
Q251,257 2SK170 EQ INPUT AMP
Q252 2SD668
Q253 2SC634SP Q254 2SK246GR2 CONSTANT CURRENT
IC201(2/2) EQ OUTPUT AMP
Q404 2SA995 CURRENT MIRROR
D404 SV03
Q405 2SA1142 A CLASS AMP
Q406 2SA1383 CASCODE
Q402,403 2SC634SP CASCODE
D417 HZ7AIL
Q401 2SK389-GR 1ST STAGE AMP
Q408 2SC3514 CONSTANT CURRENT
Q407 2SK246GR2
D401 HZ6C3L
D402,403 1SS202-1
Q409 2SC3514 CONSTANT CURRENT
Q454 2SA995 CURRENT MIRROR
D454 SV03
Q455 2SA1142 A CLASS AMP
Q456 2SA1383 CASCODE
Q452,453 2SC634SP CASCODE
D467 HZ7AIL
Q451 2SK389-GR 1ST STAGE AMP
Q458 2SC3514 CONSTANT CURRENT
Q457 2SK246GR2
D451 HZ6C3L
D452,453 1SS202-1
Q459 2SC3514 CONSTANT CURRENT
Q410 2SB731 Q411 2SD809 TEMP COMP
Q412 2SC3514 Q414 2SC2275 B CLASS DRIVE
Q416,417 2SC283 FINAL AMP
Q413 2SA1383 Q415 2SA985A B CLASS DRIVE
Q418,419 2SA1186 FINAL AMP
D407-411,413,414 1SS202-1
D412 SV02
Q460 2SB731 Q461 2SD809 TEMP COMP
Q462 2SC3514 Q464 2SC2275 B CLASS DRIVE
Q463 2SA1383 Q465 2SA985A B CLASS DRIVE
Q468,469 2SA1186 FINAL AMP
D457-461,463,464 1SS202-1
D462 SV02
PHONO TUNER CD AUX TAPE
TAPE RECORDER 1
TAPE RECORDER 2
TAPE RECORDER 3
ADAPTOR
BALANCE
ATTENUATOR
TURNOVER
TREBLE
BASS
CARTRIDGE LOAD
MM-MC-MC
[TONE SW BOARD(1/3)]
[SD SW BOARD(1/3)]
[TONE BOARD(1/3)]
[VOLUME BOARD(1/3)]
[SP SW BOARD(1/3)]
Q601 2SB1094-L LAMP DRIVE
D505 1SS202-1
Q602 2SB647 RELAY DRIVE
Q603,604 2SB734 LAMP DRIVE
Q605 2SC1841-PA OFF DET
Q501 2SA1027R CONSTANT CURRENT
D601 HZ9AIL
D602 HZ11AIL
D502 HZ6C3L
D501 EQB01-12Z
D503 1SS202-1
[MAIN B BOARD(1/3)]
IC601 μPC1237H PROTECT
[EQ BOARD(1/2)]
IC202 M5218P ERROR AMP
Q205 2SC2275 VOLT. REG.
D202,252 HZ15-3L
D201,251 HZ15-3L
Q255 2SA985A VOLT. REG.
Q206,256 2SK246GR2 CONSTANT CURRENT
D204 1SS202-1
[MAIN A BOARD(1/2)]
[LED(TONE) BOARD]
D507 SEL2810A
[LED(SD) BOARD]
D505,506 SEL2810A
LAMP BOARD


16
17
18
19
20
21
22
A
B
C
D
E
F
G
H
I
J
[H.P BOARD]
HEADPHONES
R446 560(1W)
R496 560(1W)
D604 1SS202-1
R618 680 (1W)
[SP TM BOARD]
SPEAKER A
SPEAKER B
IMPEDANCE USE 4–16Ω
A + B USE 8–16Ω
RY601
RY602
[SP SW BOARD(1/3)]
S601-1 SPEAKERS
S601-2 SPEAKERS
Q414 2SC2275
Q416,417 2SC2837 FINAL AMP
Q420 2SA988 PROTECTION
Q415 2SA985A
Q418,419 2SA1186 FINAL AMP
D415,416 1SS202-1
Q464 2SC2275
Q466,467 2SC2837 FINAL AMP
Q470 2SA988 PROTECTION
Q465 2SA985A
Q468,469 2SA1186 FINAL AMP
D465,466 1SS202-1
US/CANADIAN Model
[OUTLET BOARD]
[AC SW BOARD]
S801 POWER
F801 6.3A 125V
C801 0.01 400V
CNJ802 AC OUTLET SWITCHED
CNJ801 AC OUTLET UNSWITCHED
AC IN
T1 POWER TRANSFORMER
[MAIN B BOARD(1/3)]
D701-704 30DF2
D705 CTU-22S
D755 CTU-22R
D603 10E2
SELECTOR POSITION
240V
220V
120V
E Model
[V.S BOARD]
[FUSE BOARD]
VS801 VOLTAGE SELECTOR
F801 T3.15A
F802 T3.15A
Not replaceable Built in transformer.
INTERNAL CONNECTION
UK/AEP/G-AEP Model
C802 0.001/400V

Note on Schematic Diagram

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^1/_4$W or less unless otherwise specified.
- ⇨ : signal path.

> Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

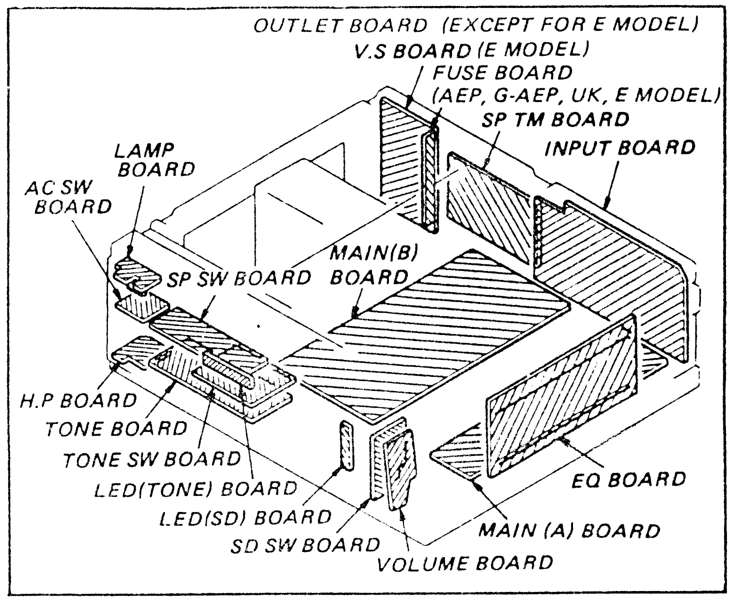
> Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Components for right channel have same values as for left channel.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- Switch

Ref. No.	Switch	Position
S101	INPUT SELECT	PHONE
S102	TAPE SELECT	TAPE 1
S103	REC OUT SELECT	PHONO
S104	ADAPTOR	OFF
S201	CARTRIDGE LOAD	MM
S301	MUTING –20dB	OFF
S302	SUBSONIC	OFF
S303	TONE	OFF
S304	SOURCE DIRECT	OFF
S305	TURN OVER	400Hz
S306	TURN OVER	3kHz
S501	MODE	STEREO
S601	SPEAKER	A
S801	POWER	OFF
VS809	VOLTAGE SELECTOR (E MODEL)	–

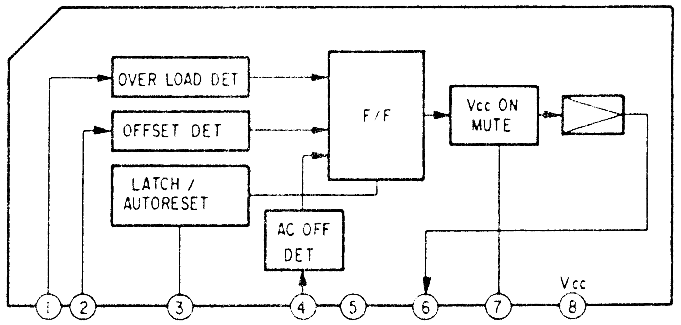
- ▬ : B+ bus.
- ▬ : B– bus.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
- Voltage variations may be noted due to normal production tolerances.

- CIRCUIT BOARDS LOCATION


OUTLET BOARD (EXCEPT FOR E MODEL)
V.S BOARD (E MODEL)
FUSE BOARD
(AEP, G-AEP, UK, E MODEL)
SP TM BOARD
INPUT BOARD
LAMP BOARD
AC SW BOARD
MAIN(B) BOARD
SP SW BOARD
H.P BOARD
TONE BOARD
TONE SW BOARD
LED(TONE) BOARD
LED(SD) BOARD
SD SW BOARD
EQ BOARD
MAIN (A) BOARD
VOLUME BOARD

IC BLOCK DIAGRAM

μPC1237H


OVER LOAD DET
OFFSET DET
LATCH / AUTORESET
F/F
Vcc ON MUTE
AC OFF DET
Vcc
1
2
3
4
5
6
7
8

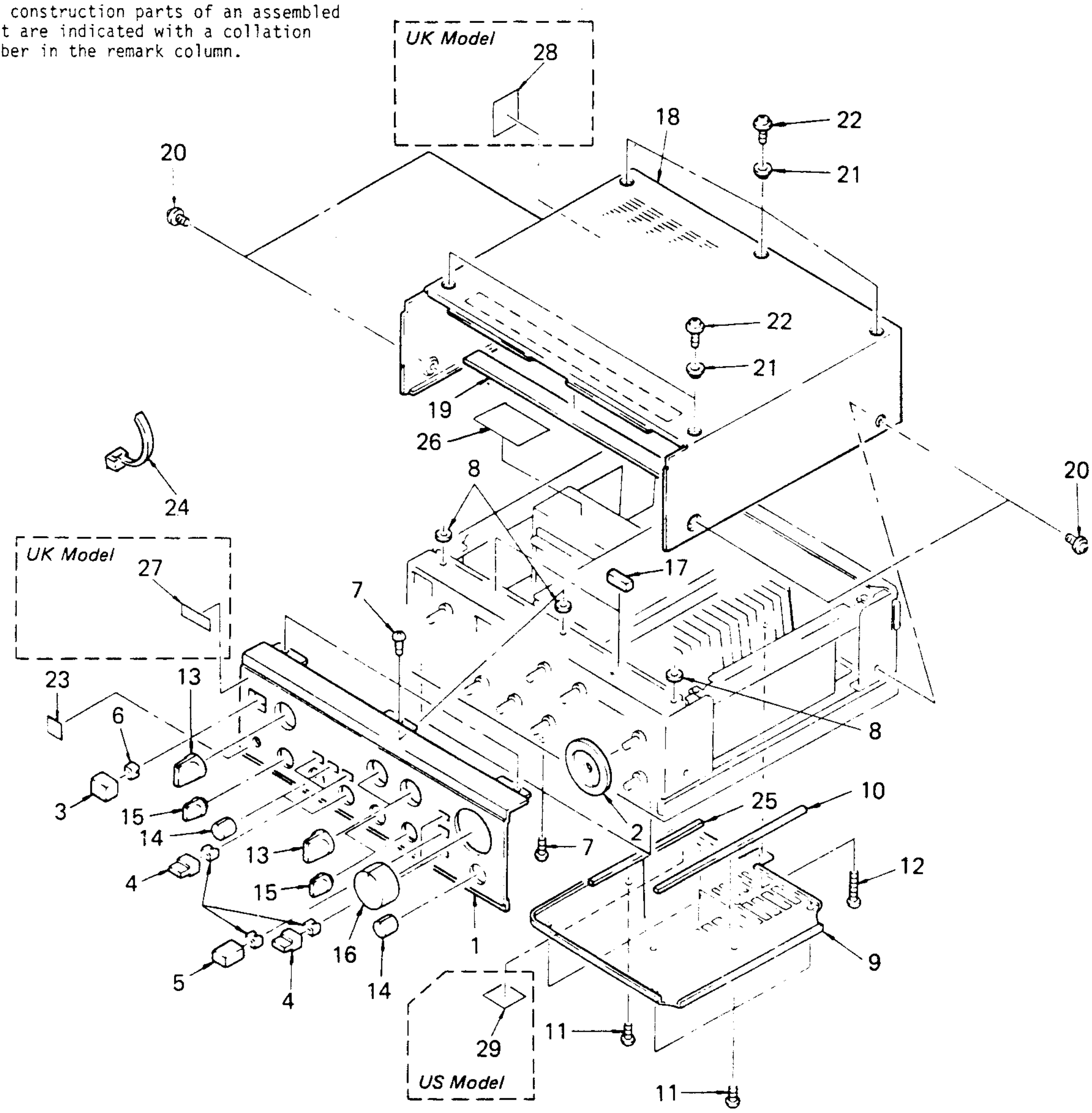
SECTION 5
EXPLODED VIEWS AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

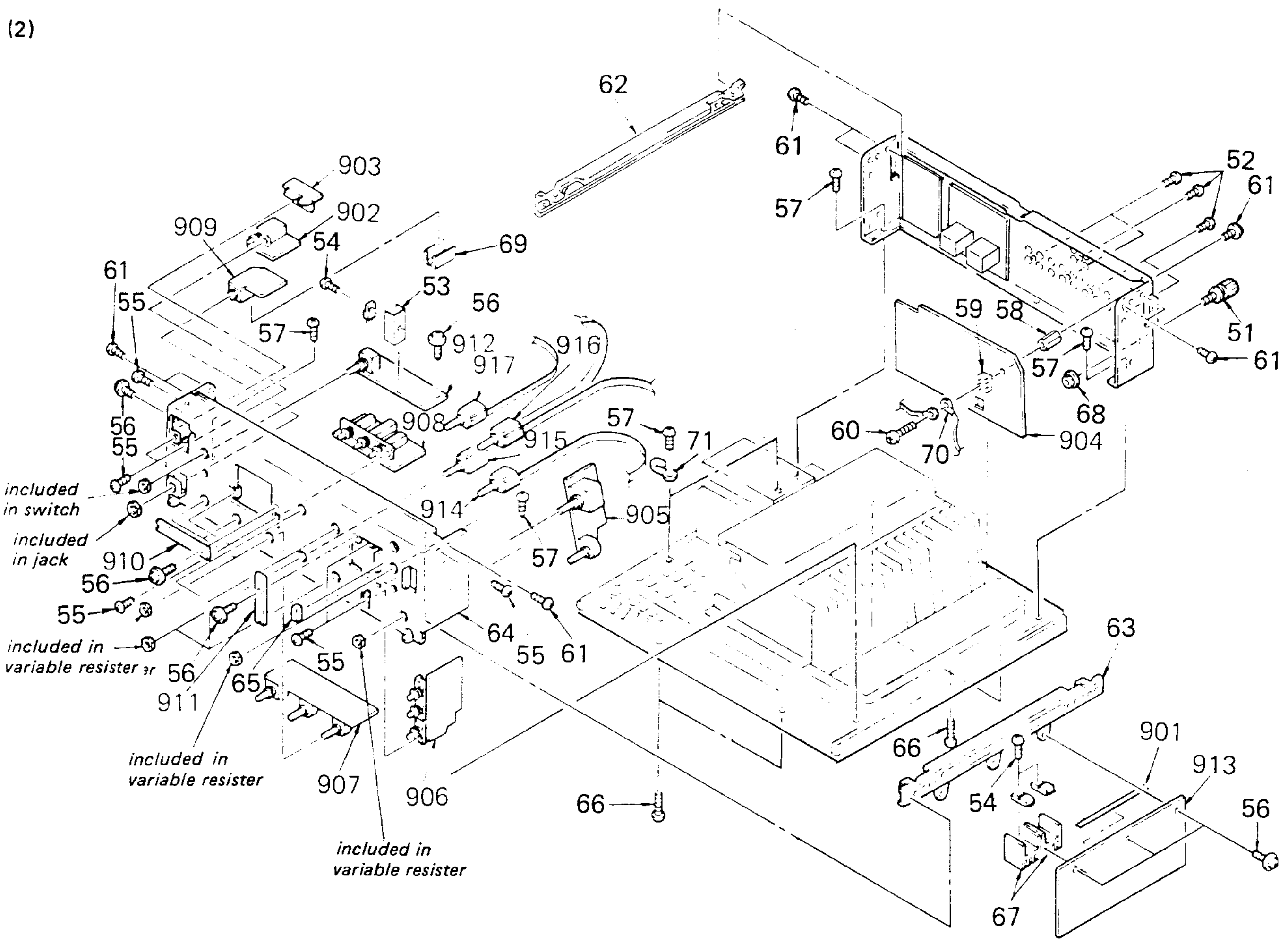
Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1)



No.	Part No.	Description	Remarks
1	A-4322-860-A	(EXCEPT FOR E)...PANEL ASSY, FRONT	
	A-4322-872-A	(E).. ....PANEL ASSY, FRONT	
2	4-908-857-01	RING (DIA.48), ORNAMENTAL	
3	4-908-856-01	KNOB, SQUARE	
4	3-315-105-21	KNOB (5X16), SQUARE	
5	4-908-875-01	KNOB, SQUARE	
6	4-864-307-00	RING	
7	7-685-751-09	SCREW +BVTT 3X6 (S)	
8	3-311-623-11	SPACER	
9	*4-908-865-01	PLATE, BOTTOM	
10	4-916-872-11	DAMPER	
11	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
12	7-685-153-29	SCREW +P 3X30 TYPE2 SLIT	
13	4-908-859-01	(EXCEPT FOR E)...KNOB (NA-29)	
	4-916-706-01	(E).............KNOB (NA-29)	
14	4-908-860-01	KNOB (NA-22), R	
15	4-908-858-01	KNOB (NA-22), FLAT	
16	4-916-705-01	(EXCEPT FOR E)...KNOB (NA-48), R	
	4-916-705-01	(E).............KNOB (NA-48), R	
17	*4-908-872-01	CUSHION	
18	4-908-868-01	CASE	
19	4-916-782-01	DAMPER	
20	4-849-802-00	SCREW	
21	3-576-298-11	ESCUTCHEON	
22	3-703-249-11	SCREW, S TIGHT, +PTTWH 3X6	
23	3-703-710-41	STICKER, SONY SYMBOL (12)	
24	3-655-653-21	BAND (TAITON), BINDING	
25	4-916-702-21	DAMPER	
26	4-908-885-01	LABEL, TRANSFORMER	
27	3-701-690-00	(UK)...LABEL (MADE IN JAPAN)	
28	3-703-079-21	(UK)...LABEL, CAUTION (BACK)	
29	3-703-680-00	(US)...LABEL, CAUTION, SUB, NEW UL	

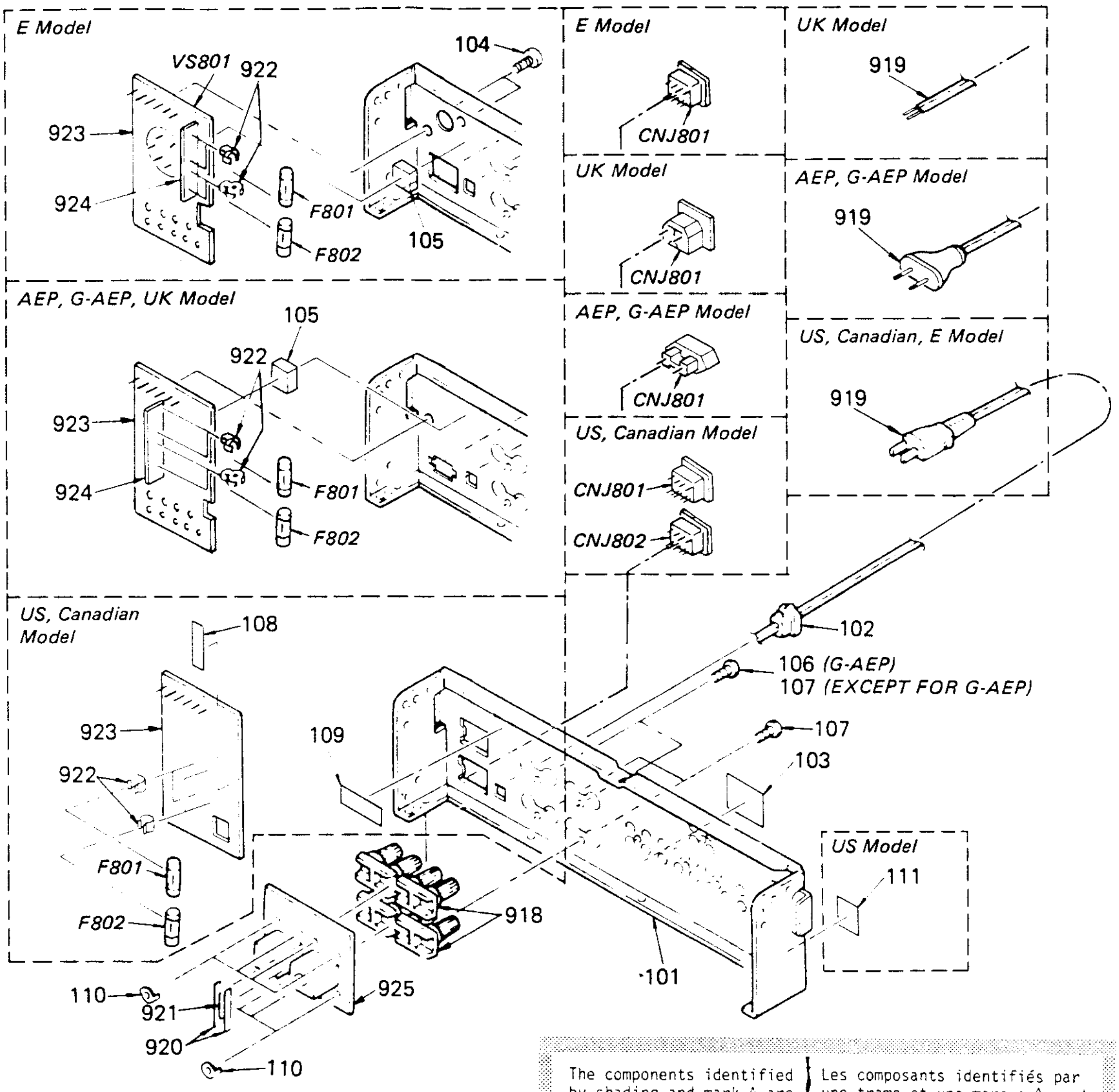
(2)


62
61
903
52
61
909
902
54
69
57
61
55
53
56
57
59
58
51
912
917
916
61
57
68
56
55
908
57
71
60
70
904
915
included in switch
included in jack
914
905
910
57
56
55
included in variable resister
64
55
61
63
56
911
65
55
66
901
913
included in variable resister
907
906
66
54
56
included in variable resister
67

No.	Part No.	Description	Remarks
51	X-4854-207-0	TERMINAL ASSY, GROUND	
52	7-685-646-29	SCREW +BVTP 3X8 TYPE2 SLIT	
53	*4-880-403-11	HEAT SINK	
54	7-682-548-09	SCREW +B 3X8	
55	7-685-751-09	SCREW +BVTT 3X6 (S)	
56	3-703-249-11	SCREW, S TIGHT, +PTTWH 3X6	
57	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
58	*2-280-622-51	SUPPORT (M3), HEXAGON	
59	*4-835-639-00	PLATE, GROUND	
60	2-259-121-21	SCREW, TR	
61	3-703-108-21	SCREW +BV 3X6, S TIGHT	
62	*4-908-861-11	BRACKET, EQ	
63	*4-908-861-01	BRACKET, EQ	
64	*4-908-867-01	CHASSIS, FRONT	
65	*4-908-854-01	CUSHION	
66	7-685-650-29	SCREW +BVTP 3X16 TYPE2 SLIT	
67	*4-363-147-00	HEAT SINK, H.PIN	
68	4-908-880-01	NUT (M3), FLANGE	
69	*4-904-909-01	PLATE (A), SHIELD	
70	7-623-508-01	LUG, 3	
71	4-908-882-01	CLAMP	

No.	Part No.	Description	Remarks
901	*1-560-242-71	BUS BAR 6P	
902	*1-618-512-11	PC BOARD, AC-SW	
903	*1-618-513-11	PC BOARD, LAMP	
904	*1-618-514-11	PC BOARD, INPUT	
905	*1-618-515-11	PC BOARD, VR	
906	*1-618-516-11	PC BOARD, S.D	
907	*1-618-517-11	PC BOARD, TONE	
908	*1-618-518-11	PC BOARD, TONE-SW	
909	*1-618-519-11	PC BOARD, H.P	
910	*1-618-520-11	PC BOARD, LED-A (TONE)	
911	*1-618-521-11	PC BOARD, LED-B (S.D)	
912	*1-618-511-11	PC BOARD, SP-SW	
913	*A-4358-183-A	(EXCEPT FOR G-AEP)...MOUNTED PCB, EQ	
	*A-4358-184-A	(G-AEP).............MOUNTED PCB, EQ	
914	1-570-588-11	SWITCH, ROTARY SLIDE (REMOTE) (CARTRIDGE LOAD)	
915	1-570-589-11	SWITCH, ROTARY SLIDE (REMOTE) (REC OUT SELECT)	
916	1-570-590-11	SWITCH, ROTARY SLIDE (REMOTE)	
917	1-570-591-11	SWITCH, ROTARY SLIDE (REMOTE) (TAPE SELECT)	

(3)


E Model
VS801
922
104
923
924
F801
105
F802
E Model
CNJ801
UK Model
CNJ801
UK Model
919
AEP, G-AEP Model
919
AEP, G-AEP, UK Model
105
922
923
924
F801
F802
AEP, G-AEP Model
CNJ801
US, Canadian, E Model
919
US, Canadian Model
CNJ801
CNJ802
US, Canadian Model
108
102
106 (G-AEP)
107 (EXCEPT FOR G-AEP)
923
109
107
922
103
US Model
111
F801
918
F802
101
110
921
925
920
110

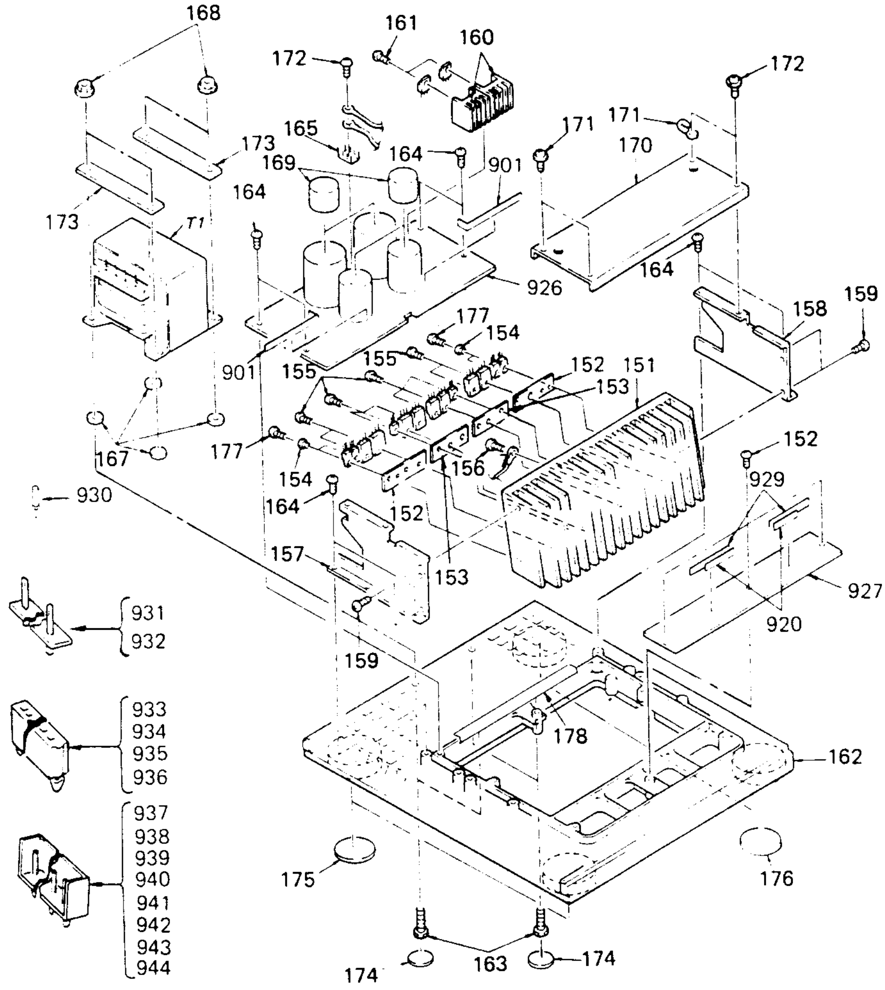
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remarks
101	*4-908-866-21	(AEP)...........PLATE, JACK	
	*4-908-866-31	(G-AEP).........PLATE, JACK	
	*4-908-866-41	(UK)............PLATE, JACK	
	*4-908-866-51	(E).............PLATE, JACK	
	*4-916-871-01	(US,Canadian)...PLATE, JACK	
102	2-371-561-00	(US,Canadian)....BUSHING, (P) INSULTING	
	3-703-244-00	(E)..............BUSHING (2104), CORD	
	4-916-783-01	(AEP,G-AEP,UK)...BUSHING, CORD PA	
103	*4-908-896-01	(US).........LABEL, MODEL NUMBER	
	*4-908-897-01	(Canadian)...LABEL, MODEL NUMBER	
	*4-908-898-01	(AEP)........LABEL, MODEL NUMBER	
	*4-908-899-02	(UK).........LABEL, MODEL NUMBER	
	*4-916-701-01	(E)..........LABEL, MODEL NUMBER	
	*4-916-702-02	(G-AEP)......LABEL, MODEL NUMBER	
104	7-685-871-09	(E)...SCREW +BVTT 3X6 BZn	
105	4-916-707-01	(AEP,G-AEP,UK,E)...CUSHION	
106	4-887-711-21	(G-AEP)...SCREW, TERMINAL, CLAW, +BVTP	
107	7-685-646-29	SCREW +BVTP 3X8 TYPE2 SLIT	
108	3-701-946-28	(US,Canadian)...LABEL, FUSE	
109	3-703-044-26	(US,Canadian)...LABEL, CAUTION	
110	*4-843-416-11	PLATE, FIXED, CAP	
111	3-703-680-00	(US)....LABEL, CAUTION, SUB, NEW UL	
918	1-536-767-21	TERMINAL BOARD, SPEAKER	

No.	Part No.	Description	Remarks
919	⚠1-555-386-00	(E).............CORD, POWER	
	⚠1-557-577-11	(US,Canadian)...CORD, POWER	
	⚠1-559-271-11	(AEP,G-AEP).....CORD, POWER	
	⚠1-559-272-11	(UK)............CORD, POWER	
920	*1-560-242-11	BUS BAR 3P	
921	*1-560-242-61	BUS BAR 2P	
922	⚠1-533-183-11	(AEP,G-AEP,UK,E)...HOLDER, FUSE	
	⚠1-553-185-11	(US,Canadian)......HOLDER, FUSE	
923	*1-618-523-11	(US,Canadian)....PC BOARD, OUTLET	
	*1-619-928-11	(E)..............PC BOARD, V.S	
	*1-619-930-11	(AEP,G-AEP,UK)...PC BOARD, OUTLET	
924	*1-619-929-11	(E)..............PC BOARD, FUSE (E)	
	*1-619-931-11	(AEP,G-AEP,UK)...PC BOARD, FUSE	
925	*1-618-522-11	PC BOARD, SP-TM	
CNJ801	⚠1-526-751-00	(UK)..............OUTLET AC	
CNJ801	⚠1-526-794-11	(AEP,G-AEP).......OUTLET AC	
CNJ801	⚠1-526-883-00	(US,Canadian,E)...OUTLET AC	
CNJ802	⚠1-526-883-00	(US,Canadian).....OUTLET AC	
F801	⚠1-532-237-00	(AEP,G-AEP,UK,E)...FUSE, TIME-LAG 3.15A	
F801	⚠1-532-883-00	(US,Canadian)......FUSE, GLASS 6.3A	
F802	⚠1-532-237-00	(E)..............FUSE, GLASS 3.15A	
F802	⚠1-532-286-00	(AEP,G-AEP,UK)...FUSE, TIME-LAG 2.5A	
F802	⚠1-532-883-00	(US,Canadian)....FUSE, GLASS 6.3A	
VS801	⚠1-526-576-31	(E)...SELECTOR, POWER VOLTAGE	

(4)



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remarks
151	*4-908-874-11	HEAT SINK	
152	4-916-709-01	SHEET (B), INSULATING	
153	4-916-708-01	SHEET (A), INSULATING	
154	2-371-561-00	BUSHING (P), INSULATING	
155	7-682-549-09	SCREW +B 3X10	
156	7-682-561-10	SCREW +B 4X8	
157	*4-908-863-01	BRACKET (FRONT), HEAT SINK	
158	*4-908-864-01	BRACKET (REAR), HEAT SINK	
159	7-685-646-29	SCREW +BVTP 3X8 TYPE2 SLIT	
160	*4-363-147-00	HEAT SINK, H.PIN	
161	7-682-548-09	SCREW +B 3X8	
162	X-4885-922-1	CHASSIS, MAIN ASSY	
163	7-683-333-07	BOLT, HEXAGON 4X40	
164	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
165	*4-880-404-01	PLATE, GROUND	
166	7-685-648-29	SCREW +BVTP 3X12 TYPE2 SLIT	
167	*4-885-984-01	WASHER	
168	4-908-881-01	NUT (M4), FLANGE	
169	*4-908-853-01	CUSHION	
170	*4-908-862-01	RETAINER, CHEMICAL CAPACITOR	
171	*4-908-882-01	CLAMP	
172	3-703-249-11	SCREW, S TIGHT, +PTTWH 3X6	
173	*4-908-886-01	REINFORCEMENT, TRANSFORMER	
174	*4-908-892-01	SPACER	
175	*4-908-888-01	(US,Canadian,AEP,UK)...FOOT, TUNING	
	*4-916-704-01	(G-AEP,E).............FOOT	
176	*4-908-887-01	(US,Canadian,AEP,UK)...FOOT, TUNING	
	*4-916-704-11	(G-AEP,E).............FOOT	
177	7-682-649-09	SCREW +PS 3X10	
178	4-916-763-01	(US)...SHEET, INSULATING	

No.	Part No.	Description	Remarks
901	*1-560-242-71	BUS BAR 6P	
920	*1-560-242-11	BUS BAR 3P	
926	*A-4388-584-A	(EXCEPT FOR G-AEP) ...MOUNTED PCB, MAIN (B)	
	*A-4388-585-A	(G-AEP)....MOUNTED PCB, MAIN (B)	
927	*A-4388-582-A	(EXCEPT FOR G-AEP) ....MOUNTED PCB, MAIN (A)	
	*A-4388-583-A	(G-AEP)....MOUNTED PCB, MAIN (A)	
929	*1-560-242-21	BUS BAR 4P	
930	*1-535-492-00	PIN, GT	
931	*1-508-809-00	BASE POST (14MM) 2P	
932	*1-535-136-00	(AEP,G-AEP,UK,E) ....BASE POST 14MM (10MM PITCH) 3P	
933	*1-562-249-00	SOCKET, CONNECTOR 4P	
934	*1-562-250-00	SOCKET, CONNECTOR 5P	
935	*1-562-251-00	SOCKET, CONNECTOR 6P	
936	*1-562-327-00	SOCKET, CONNECTOR 3P	
937	*1-564-505-11	PLUG, CONNECTOR 2P, WHITE	
938	*1-564-505-31	PLUG, CONNECTOR 2P, RED	
939	*1-564-506-11	PLUG, CONNECTOR 3P, WHITE	
940	*1-564-507-11	PLUG, CONNECTOR 4P, WHITE	
941	*1-564-507-21	PLUG, CONNECTOR 4P, BLACK	
942	*1-564-507-31	PLUG, CONNECTOR 4P, RED	
943	*1-564-508-11	PLUG, CONNECTOR 5P, WHITE	
944	*1-564-509-11	PLUG, CONNECTOR 6P, WHITE	
T1	⚠1-448-631-11	(UK,G-AEP)......TRANSFORMER, POWER	
T1	⚠1-448-632-11	(E).............TRANSFORMER, POWER	
T1	⚠1-448-633-11	(US,Canadian)...TRANSFORMER, POWER	
T1	⚠1-448-634-11	(AEP)...........TRANSFORMER, POWER	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:µF, PF:µµF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : µH

SEMICONDUCTORS
In each case, U : µ, for example:
UA...: µA..., UPA...: µPA..., UPC...: µPC, UPD...: µPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	*1-560-242-71	BUS BAR 6P
902	*1-618-512-11	PC BOARD, AC-SW
903	*1-618-513-11	PC BOARD, LAMP
904	*1-618-514-11	PC BOARD, INPUT
905	*1-618-515-11	PC BOARD, VR
906	*1-618-516-11	PC BOARD, S.D
907	*1-618-517-11	PC BOARD, TONE
908	*1-618-518-11	PC BOARD, TONE-SW
909	*1-618-519-11	PC BOARD, H.P
910	*1-618-520-11	PC BOARD, LED-A (TONE)
911	*1-618-521-11	PC BOARD, LED-B (S.D)
912	*1-618-511-11	PC BOARD, SP-SW
913	*A-4358-183-A	(US,Canadian,AEP,UK,E)..MOUNTED PCB, EQ
	*A-4358-184-A	(G-AEP).................MOUNTED PCB, EQ
914	1-570-588-11	SWITCH, ROTARY SLIDE (REMOTE)
915	1-570-589-11	SWITCH, ROTARY SLIDE (REMOTE)
916	1-570-590-11	SWITCH, ROTARY SLIDE (REMOTE)
917	1-570-591-11	SWITCH, ROTARY SLIDE (REMOTE)
918	1-536-767-21	TERMINAL BOARD, SPEAKER
919	**⚠1-555-386-00**	**(E).............CORD, POWER**
	⚠1-557-577-11	**(US,Canadian)...CORD, POWER**
	⚠1-559-271-11	**(AEP,G-AEP).....CORD, POWER**
	⚠1-559-272-00	**(UK)............CORD, POWER**
920	*1-560-242-11	BUS BAR 3P
921	*1-560-242-61	BUS BAR 2P
922	**⚠1-533-183-11**	**(AEP,G-AEP,UK,E)...HOLDER, FUSE**
	⚠1-533-185-11	**(US,Canadian)......HOLDER, FUSE**
923	*1-618-523-11	(US,Canadian)....PC BOARD, OUTLET
	*1-619-928-11	(E)..............PC BOARD, V.S
	*1-619-930-11	(AEP,G-AEP,UK)...PC BOARD, OUTLET
924	*1-619-929-11	(E)..............PC BOARD, FUSE (E)
	*1-619-931-11	(AEP,G-AEP,UK)...PC BOARD, FUSE (E)
925	*1-618-522-11	PC BOARD, SP-TM
926	*A-4388-584-A	(EXCEPT FOR G-AEP)..MOUNTED PCB, MAIN(B)
	*A-4388-585-A	(G-AEP).............MOUNTED PCB, MAIN(B)
927	*A-4388-582-A	(EXCEPT FOR G-AEP)..MOUNTED PCB, MAIN(A)
	*A-4388-583-A	(G-AEP).............MOUNTED PCB, MAIN(A)
929	*1-560-242-21	BUS BAR 4P
930	*1-535-492-00	PIN, GT
931	*1-508-809-00	BASE POST (14MM) 2P
932	*1-535-136-00	BASE POST 14MM (10MM PITCH) 3P
933	*1-562-249-00	SOCKET, CONNECTOR 4P
934	*1-562-250-00	SOCKET, CONNECTOR 5P
935	*1-562-251-00	SOCKET, CONNECTOR 6P

ELECTRICAL PARTS

Ref.No.	Part No.	Description
936	*1-562-327-00	SOCKET, CONNECTOR 3P
937	*1-564-505-11	PLUG, CONNECTOR 2P, WHITE
938	*1-564-505-31	PLUG, CONNECTOR 2P, RED
939	*1-564-506-11	PLUG, CONNECTOR 3P, WHITE
940	*1-564-507-11	PLUG, CONNECTOR 4P, WHITE
941	*1-564-507-21	PLUG, CONNECTOR 4P, BLACK
942	*1-564-507-31	PLUG, CONNECTOR 4P, RED
943	*1-564-508-11	PLUG, CONNECTOR 5P, WHITE
944	*1-564-509-11	PLUG, CONNECTOR 6P, WHITE
C101	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C102	1-161-272-00	(G-AEP)...CERAMIC 120PF 5% 50V
C103	1-107-309-00	(G-AEP)...MICA 100PF 5% 500V
C151	1-161-315-00	(G-AEP)...CERAMIC 220PF 10% 50V
C152	1-161-272-00	(G-AEP)...CERAMIC 120PF 5% 50V
C153	1-107-309-00	(G-AEP)...MICA 100PF 5% 500V
C201	1-104-249-11	(EXCEPT FOR G-AEP) ...POLYSTYRENE 330PF 5% 125V
C201	1-107-294-00	(G-AEP)...MICA 56PF 5% 100V
C202	1-104-150-00	(EXCEPT FOR G-AEP) ...POLYSTYRENE 680PF 5% 125V
C202	1-104-151-00	(G-AEP)...POLYSTYRENE 0.0022MF 5% 125V
C203	1-123-373-00	ELECT 47MF 20% 63V
C204	1-123-373-00	ELECT 47MF 20% 63V
C205	1-136-267-11	FILM 0.0036MF 3% 100V
C206	1-130-206-00	FILM 0.016MF 2% 630V
C207	1-130-205-00	FILM 0.056MF 2% 630V
C208	1-130-281-00	FILM 0.0022MF 5% 100V
C209	1-123-337-00	ELECT 1000MF 20% 25V
C211	1-123-332-00	ELECT 47MF 20% 25V
C212	1-123-356-00	ELECT 10MF 20% 50V
C214	1-123-369-00	ELECT 4.7MF 20% 50V
C251	1-104-249-11	(EXCEPT FOR G-AEP) ...POLYSTYRENE 330PF 5% 125V
C251	1-107-294-00	(G-AEP)...MICA 56PF 5% 100V
C252	1-104-150-00	(EXCEPT FOR G-AEP) ...POLYSTYRENE 680PF 5% 25V
C252	1-104-151-00	(G-AEP)...POLYSTYRENE 0.0022MF 5% 125V
C253	1-123-373-00	ELECT 47MF 20% 63V
C254	1-123-373-00	ELECT 47MF 20% 63V
C255	1-136-267-11	FILM 0.0036MF 3% 100V
C256	1-130-206-00	FILM 0.016MF 2% 630V
C257	1-130-205-00	FILM 0.056MF 2% 630V
C258	1-130-281-00	FILM 0.0022MF 5% 100V
C259	1-123-337-00	ELECT 1000MF 20% 25V
C261	1-123-332-00	ELECT 47MF 20% 25V
C262	1-123-356-00	ELECT 10MF 20% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C264	1-123-369-00	ELECT 4.7MF 20% 50V
C301	1-136-171-00	FILM 0.33MF 5% 50V
C302	1-110-219-11	MYLAR 680PF 5% 50V
C303	1-110-219-11	MYLAR 680PF 5% 50V
C304	1-110-200-00	MYLAR 0.0027MF 5% 50V
C305	1-110-200-00	MYLAR 0.0027MF 5% 50V
C306	1-110-206-00	MYLAR 0.0082MF 5% 50V
C307	1-110-206-00	MYLAR 0.0082MF 5% 50V
C308	1-136-161-00	FILM 0.047MF 5% 50V
C309	1-136-161-00	FILM 0.047MF 5% 50V
C351	1-136-171-00	FILM 0.33MF 5% 50V
C352	1-110-219-11	MYLAR 680PF 5% 50V
C353	1-110-219-11	MYLAR 680PF 5% 50V
C354	1-110-200-00	MYLAR 0.0027MF 5% 50V
C355	1-110-200-00	MYLAR 0.0027MF 5% 50V
C356	1-110-206-00	MYLAR 0.0082MF 5% 50V
C357	1-110-206-00	MYLAR 0.0082MF 5% 50V
C358	1-136-161-00	FILM 0.047MF 5% 50V
C359	1-136-161-00	FILM 0.047MF 5% 50V
C401	1-107-279-00	MICA 10PF 0.5PF 100V
C402	1-104-233-00	POLYSTYRENE 220PF 5% 125V
C403	1-123-380-00	ELECT 1MF 20% 100V
C404	1-107-276-11	(EXCEPT FOR G-AEP)..MICA 3PF 0.5PF 100V
C404	1-107-279-00	(G-AEP)......MICA 10PF 0.5PF 100V
C405	1-123-373-00	ELECT 47MF 20% 63V
C406	1-123-373-00	ELECT 47MF 20% 63V
C407	1-123-373-00	ELECT 47MF 20% 63V
C408	1-123-373-00	ELECT 47MF 20% 63V
C409	1-130-317-00	FILM 0.068MF 5% 100V
C410	1-107-279-00	MICA 10PF 0.5PF 100V
C411	1-123-374-00	ELECT 100MF 20% 63V
C412	1-123-374-00	ELECT 100MF 20% 63V
C414	1-107-169-00	(G-AEP)......MICA 27PF 5% 100V
C414	1-107-286-00	(EXCEPT FOR G-AEP)..MICA 100PF 5% 100V
C414	1-107-169-00	(G-AEP)......MICA 27PF 5% 100V
C415	1-107-286-00	(EXCEPT FOR G-AEP)..MICA 27PF 5% 100V
C416	1-136-161-00	FILM 0.047MF 5% 50V
C417	1-136-161-00	FILM 0.047MF 5% 50V
C418	1-123-378-00	ELECT 1000MF 20% 63V
C419	1-123-378-00	ELECT 1000MF 20% 63V
C420	1-107-282-91	(G-AEP)...MICK 18PF 5% 100V
C421	1-107-169-00	(G-AEP)...MICA 100PF 5% 100V
C422	1-136-162-00	(G-AEP)...FILM 0.056MF 5% 50V
C423	1-136-230-00	(G-AEP)...FILM 0.0022MF 5% 100V
C451	1-107-279-00	MICA 10PF 0.5PF 100V
C452	1-104-233-00	POLYSTYRENE 220PF 5% 125V
C453	1-123-380-00	ELECT 1MF 20% 100V
C454	1-107-202-00	(G-AEP).......MICA 10PF 0.5PF 100V
C454	1-107-276-11	(EXCEPT FOR G-AEP)..MICA 3PF 0.5PF 100V
C455	1-123-373-00	ELECT 47MF 20% 63V
C456	1-123-373-00	ELECT 47MF 20% 63V
C457	1-123-373-00	ELECT 47MF 20% 63V
C458	1-123-373-00	ELECT 47MF 20% 63V
C459	1-130-317-00	FILM 0.068MF 5% 100V
C460	1-107-279-00	MICA 10PF 0.5PF 100V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C461	1-123-374-00	ELECT 100MF 20% 63V
C462	1-123-374-00	ELECT 100MF 20% 63V
C464	1-107-169-00	(G-AEP)......MICA 100PF 5% 100V
C464	1-107-286-00	(EXCEPT FOR G-AEP)..MICA 27PF 5% 100V
C465	1-107-169-00	(G-AEP)......MICA 100PF 5% 100V
C465	1-107-286-00	(EXCEPT FOR G-AEP)..MICA 27PF 5% 100V
C466	1-136-161-00	FILM 0.047MF 5% 50V
C467	1-136-161-00	FILM 0.047MF 5% 50V
C468	1-123-378-00	ELECT 1000MF 20% 63V
C469	1-123-378-00	ELECT 1000MF 20% 63V
C470	1-107-282-91	(G-AEP)......MICA 18PF 5% 100V
C471	1-107-169-00	(G-AEP)......MICA 100PF 5% 100V
C472	1-163-162-00	(G-AEP)......FILM 0.056MF 5% 50V
C473	1-163-230-00	(G-AEP)......FILM 0.0022MF 5% 100V
C502	1-123-333-00	ELECT 100MF 20% 25V
C601	1-123-334-00	ELECT 220MF 20% 25V
C602	1-110-195-00	MYLAR 0.001MF 5% 50V
C603	1-136-157-00	FILM 0.022MF 5% 50V
C604	1-123-343-00	ELECT 33MF 20% 25V
C605	1-123-369-00	ELECT 4.7MF 20% 50V
C606	**⚠1-123-380-00**	**ELECT 1MF 20% 50V**
C607	1-123-382-00	ELECT 33MF 20% 50V
C608	1-123-382-00	ELECT 33MF 20% 50V
C609	1-130-273-00	FILM 0.001MF 5% 100V
C610	1-130-291-00	(G-AEP)......FILM 0.0056MF 5% 100V
C611	1-136-230-00	(G-AEP)......FILM 0.0022MF 5% 100V
C660	1-130-291-00	(G-AEP)......FILM 0.0056MF 5% 100V
C661	1-136-230-00	(G-AEP)......FILM 0.0022MF 5% 100V
C701	**⚠1-125-431-11**	**ELECT 4700MF 20% 63V**
C702	1-125-381-00	ELECT 12000MF 20% 63V
C703	1-123-378-00	ELECT 1000MF 20% 63V
C705	1-130-801-11	FILM 3.3MF 10% 250V
C707	1-123-377-00	(G-AEP)...ELECT 470MF 20% 63V
C751	**⚠1-125-431-11**	**ELECT 4700MF 20% 63V**
C752	1-125-381-00	ELECT 12000MF 20% 63V
C753	1-123-378-00	ELECT 1000MF 20% 63V
C757	1-123-377-00	(G-AEP)...ELECT 470MF 20% 63V
C801	**⚠1-161-741-00**	**CERAMIC 0.001MF 10% 400V**
C802	**⚠1-161-741-00**	**(UK,AEP,G-AEP,E)... CERAMIC 0.001MF 10% 400V**
C999	1-136-167-00	FILM 0.15MF 5% 50V
CNJ801	**⚠1-526-751-00**	**(UK)..............OUTLET, AC**
CNJ801	**⚠1-526-794-11**	**(AEP,G-AEP).......OUTLET, AC**
CNJ801	**⚠1-526-883-00**	**(US,Canadian,E)...OUTLET, AC**
CNJ802	**⚠1-526-883-00**	**(US,Canadian,E)...OUTLET, AC**
D201	8-719-910-53	DIODE HZ15-3L
D202	8-719-910-53	DIODE HZ15-3L
D204	8-719-940-76	DIODE 1SS132
D251	8-719-910-53	DIODE HZ15-3L
D252	8-719-910-53	DIODE HZ15-3L
D401	8-719-910-69	DIODE HZ6C3L
D402	8-719-940-76	DIODE 1SS132
D403	8-719-940-76	DIODE 1SS132
D404	8-719-300-03	DIODE SV-03
D407	8-719-940-76	DIODE 1SS132

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D408	8-719-940-76	DIODE 1SS132
D409	8-719-940-76	DIODE 1SS132
D410	8-719-940-76	DIODE 1SS132
D411	8-719-940-76	DIODE 1SS132
D412	**⚠8-719-300-02**	**DIODE SV-02**
D413	8-719-940-76	DIODE 1SS132
D414	8-719-940-76	DIODE 1SS132
D415	8-719-940-76	DIODE 1SS132
D416	8-719-940-76	DIODE 1SS132
D417	8-719-910-65	DIODE HZ7B2L
D451	8-719-910-69	DIODE HZ6C3L
D452	8-719-940-76	DIODE 1SS132
D453	8-719-940-76	DIODE 1SS132
D454	8-719-300-03	DIODE SV-03
D457	8-719-940-76	DIODE 1SS132
D458	8-719-940-76	DIODE 1SS132
D459	8-719-940-76	DIODE 1SS132
D460	8-719-940-76	DIODE 1SS132
D461	8-719-940-76	DIODE 1SS132
D462	**⚠8-719-300-02**	**DIODE SV-02**
D463	8-719-940-76	DIODE 1SS132
D464	8-719-940-76	DIODE 1SS132
D465	8-719-940-76	DIODE 1SS132
D466	8-719-940-76	DIODE 1SS132
D467	8-719-910-65	DIODE HZ7B2L
D501	8-719-930-12	DIODE EQB01-12Z
D502	8-719-910-69	DIODE HZ6C3L
D503	8-719-940-76	DIODE 1SS132
D505	8-719-301-49	DIODE SEL2810A
D506	8-719-301-49	DIODE SEL2810A
D507	8-719-301-49	DIODE SEL2810A
D601	**⚠8-719-910-75**	**DIODE HZ9B2L**
D602	8-719-910-11	DIODE HZ11A1L
D603	8-719-200-77	DIODE 10E2N
D604	8-719-940-76	DIODE 1SS132
D605	8-719-940-76	DIODE 1SS132
D701	**⚠8-719-230-02**	**DIODE 30DF2**
D702	**⚠8-719-230-02**	**DIODE 30DF2**
D703	**⚠8-719-230-02**	**DIODE 30DF2**
D704	**⚠8-719-230-02**	**DIODE 30DF2**
D705	**⚠8-719-300-27**	**DIODE CTU-22S**
D755	**⚠8-719-300-25**	**DIODE CTU-22R**
F801	**⚠1-532-237-00**	**(AEP,G-AEP,UK,E)..FUSE, TIME-LAG, 3.15A**
F801	**⚠1-532-883-00**	**(US,Canadian).....FUSE, GLASS 6.3A**
F802	**⚠1-532-237-00**	**(E).............FUSE, TIME-LAG, 3.15A**
F802	**⚠1-532-286-00**	**(AEP,G-AEP,UK)...FUSE, TIME-LAG, 2.5A**
F802	**⚠1-532-883-00**	**(US,Canadian)....FUSE, GLASS 6.3A**
J101	1-507-830-21	JACK, PIN 4P (ADAPTOR)
J102	1-507-830-00	JACK, PIN 4P (INPUT PHONO/TUNER)
J103	1-507-830-00	JACK, PIN 4P (INPUT/CD/AUX)
J104	1-507-831-00	JACK, PIN 6P (TAPE RECORDER 1/2)
J105	1-507-831-00	JACK, PIN 6P (TAPE RECORDER 2/3)
J601	1-507-707-00	JACK, LARGE TYPE (HEADPHONES)
IC201	8-759-602-01	(G-AEP).............IC M5220P
IC201	8-759-701-21	(EXCEPT FOR G-AEP)...IC NJM5532D-D
IC202	8-759-601-02	IC M5218P
IC601	8-759-101-23	IC UPC1237H

ELECTRICAL PARTS

Ref.No.	Part No.	Description
L101	1-413-101-00	(G-AEP)...COIL, INPUT
L102	1-413-101-00	(G-AEP)...COIL, INPUT
L151	1-413-101-00	(G-AEP)...COIL, INPUT
L152	1-413-101-00	(G-AEP)...COIL, INPUT
L401	*1-422-009-13	COIL, AIR-CORE
L402	1-422-261-11	COIL, AIR-CORE
L403	1-422-261-11	COIL, AIR-CORE
L451	*1-422-009-13	COIL, AIR-CORE
L452	1-422-261-11	COIL, AIR-CORE
L453	1-422-261-11	COIL, AIR-CORE
PTH701	**⚠1-806-882-11**	**(EXCEPT FOR G-AEP) ...THERMISTOR (POSITIVE)**
PTH751	**⚠1-806-882-11**	**(EXCEPT FOR G-AEP) ...THERMISTOR (POSITIVE)**
PL601	1-518-518-41	LAMP, PILOT
PL602	1-518-518-41	LAMP, PILOT
Q201	8-729-217-03	TRANSISTOR 2SK170
Q202	8-729-366-81	TRANSISTOR 2SD668
Q203	8-729-600-27	TRANSISTOR 2SC634SP
Q204	8-729-201-56	TRANSISTOR 2SK246-GR2
Q205	8-729-127-53	TRANSISTOR 2SC2275-P
Q206	8-729-201-56	TRANSISTOR 2SK246-GR2
Q207	8-729-217-03	TRANSISTOR 2SK170
Q251	8-729-217-03	TRANSISTOR 2SK170
Q252	8-729-366-81	TRANSISTOR 2SD668
Q253	8-729-600-27	TRANSISTOR 2SC634SP
Q254	8-729-201-56	TRANSISTOR 2SK246-GR2
Q255	8-729-190-53	TRANSISTOR 2SA985A
Q256	8-729-201-56	TRANSISTOR 2SK246-GR2
Q257	8-729-217-03	TRANSISTOR 2SK170
Q401	8-729-203-21	TRANSISTOR 2SK389-GR
Q402	8-729-600-27	TRANSISTOR 2SC634SP
Q403	8-729-600-27	TRANSISTOR 2SC634SP
Q404	8-729-699-51	TRANSISTOR 2SA995
Q405	**⚠8-729-114-22**	**TRANSISTOR 2SA1142**
Q406	**⚠8-729-104-91**	**TRANSISTOR 2SA1383**
Q407	8-729-201-56	TRANSISTOR 2SK246-GR2
Q408	8-729-104-18	TRANSISTOR 2SC3514
Q409	8-729-104-18	TRANSISTOR 2SC3514
Q410	**⚠8-729-173-13**	**TRANSISTOR 2SB731**
Q411	**⚠8-729-180-93**	**TRANSISTOR 2SD809**
Q412	**⚠8-729-104-18**	**TRANSISTOR 2SC3514**
Q413	**⚠8-729-104-91**	**TRANSISTOR 2SA1383**
Q414	**⚠8-729-127-53**	**TRANSISTOR 2SC2275-P**
Q415	**⚠8-729-190-53**	**TRANSISTOR 2SA985A**
Q416	**⚠8-729-383-73**	**TRANSISTOR 2SC2837**
Q417	**⚠8-729-383-73**	**TRANSISTOR 2SC2837**
Q418	**⚠8-729-318-63**	**TRANSISTOR 2SA1186**
Q419	**⚠8-729-318-63**	**TRANSISTOR 2SA1186**
Q420	8-729-108-14	TRANSISTOR 2SA988-F
Q451	8-729-203-21	TRANSISTOR 2SK389-GR
Q452	8-729-600-27	TRANSISTOR 2SC634SP
Q453	8-729-600-27	TRANSISTOR 2SC634SP
Q454	8-729-699-51	TRANSISTOR 2SA995
Q455	**⚠8-729-114-22**	**TRANSISTOR 2SA1142**
Q456	**⚠8-729-104-91**	**TRANSISTOR 2SA1383**
Q457	8-729-201-56	TRANSISTOR 2SK246-GR2
Q458	8-729-104-18	TRANSISTOR 2SC3514

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q459	8-729-104-18	TRANSISTOR 2SC3514			
Q460	**⚠8-729-173-13**	**TRANSISTOR 2SB731**			
Q461	**⚠8-729-180-93**	**TRANSISTOR 2SB809**			
Q462	**⚠8-729-104-18**	**TRANSISTOR 2SC3514**			
Q463	**⚠8-729-104-91**	**TRANSISTOR 2SA1383**			
Q464	**⚠8-729-127-53**	**TRANSISTOR 2SC2275-P**			
Q465	**⚠8-729-190-53**	**TRANSISTOR 2SA985A**			
Q466	**⚠8-729-383-73**	**TRANSISTOR 2SC2837**			
Q467	**⚠8-729-383-73**	**TRANSISTOR 2SC2837**			
Q468	**⚠8-729-318-63**	**TRANSISTOR 2SA1186**			
Q469	**⚠8-729-318-63**	**TRANSISTOR 2SA1186**			
Q470	8-729-108-14	TRANSISTOR 2SA988-F			
Q501	8-729-612-77	TRANSISTOR 2SA1027R			
Q601	**⚠8-729-111-67**	**TRANSISTOR 2SB1094-L**			
Q602	**⚠8-729-364-72**	**TRANSISTOR 2SB647**			
Q603	8-729-103-43	TRANSISTOR 2SB734			
Q604	8-729-103-43	TRANSISTOR 2SB734			
Q605	8-729-108-05	TRANSISTOR 2SC1841-PA			
R101	1-246-545-00	CARBON	1M		1/4W
R102	1-246-545-00	CARBON	1M		1/4W
R103	1-246-545-00	CARBON	1M		1/4W
R104	1-246-545-00	CARBON	1M		1/4W
R105	1-246-545-00	CARBON	1M		1/4W
R106	1-246-545-00	CARBON	1M		1/4W
R107	1-247-713-11	CARBON	1K		1/4W
R108	1-247-713-11	CARBON	1K		1/4W
R109	1-247-713-11	CARBON	1K		1/4W
R110	1-247-713-11	(G-AEP).....CARBON	1K		1/2W
R110	1-247-739-11	(EXCEPT FOR G-AEP)..CARBON	100		1/2W
R111	1-247-706-11	(G-AEP)....CARBON	330		1/4W
R112	1-247-706-11	(G-AEP)....CARBON	330		1/4W
R151	1-246-545-00	CARBON	1M		1/4W
R152	1-246-545-00	CARBON	1M		1/4W
R153	1-246-545-00	CARBON	1M		1/4W
R154	1-246-545-00	CARBON	1M		1/4W
R155	1-246-545-00	CARBON	1M		1/4W
R156	1-246-545-00	CARBON	1M		1/4W
R157	1-247-713-11	CARBON	1K		1/4W
R158	1-247-713-11	CARBON	1K		1/4W
R159	1-247-713-11	CARBON	1K		1/4W
R160	1-247-713-11	(G-AEP).....CARBON	1K		1/2W
R160	1-247-739-11	(EXCEPT FOR G-AEP)...CARBON	100		1/2W
R161	1-247-706-11	(G-AEP)....CARBON	330		1/4W
R162	1-247-706-11	(G-AEP)....CARBON	330		1/4W
R201	1-249-465-11	CARBON	47K		1/4W
R202	1-247-706-11	CARBON	330		1/4W
R203	1-247-700-11	(G-AEP).....CARBON	100		1/4W
R203	1-247-713-11	(EXCEPT FOR G-AEP)...CARBON	1K		1/4W
R204	1-247-700-11	(EXCEPT FOR G-AEP)...CARBON	100		1/4W
R204	1-249-516-91	(G-AEP).....CARBON	33		1/4W
R205	1-247-128-00	CARBON	750		1/4W
R206	1-247-128-00	CARBON	750		1/4W
R207	1-247-700-11	CARBON	100		1/4W
R208	1-247-708-11	CARBON	470	5%	1/4W
R209	1-247-695-11	CARBON	39	5%	1/4W
R210	1-247-704-11	CARBON	220	5%	1/4W
R211	1-247-721-11	CARBON	4.7K	5%	1/4W
R212	1-214-937-00	CARBON	1M		1/2W
R213	1-249-565-11	CARBON	3.6K		1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R214	1-214-906-00	METAL	51K	1%	1/2W
R215	1-214-878-00	METAL	3.9K	1%	1/2W
R216	1-247-744-11	CARBON	270		1/2W
R217	1-206-458-00	CARBON	6.2	5%	1/3W
R218	1-247-215-00	CARBON	91		1/2W
R219	1-247-704-11	CARBON	220		1/4W
R220	1-247-725-11	CARBON	10K	5%	1/4W
R221	1-247-704-11	CARBON	220	5%	1/4W
R222	1-247-719-11	CARBON	3.3K	5%	1/4W
R251	1-249-465-11	CARBON	47K		1/4W
R252	1-247-706-11	CARBON	330		1/4W
R253	1-247-700-11	(G-AEP)....CARBON	100		1/4W
R253	1-247-713-11	(EXCEPT FOR G-AEP) ...CARBON	1K		1/4W
R254	1-247-700-11	(EXCEPT FOR G-AEP) ...CARBON	100		1/4W
R254	1-249-516-91	(G-AEP)....CARBON	33		1/4W
R255	1-247-128-00	CARBON	750		1/4W
R256	1-247-128-00	CARBON	750		1/4W
R257	1-247-700-11	CARBON	100		1/4W
R258	1-247-708-11	CARBON	470	5%	1/4W
R259	1-247-695-11	CARBON	39	5%	1/4W
R260	1-247-704-11	CARBON	220	5%	1/4W
R261	1-247-721-11	CARBON	4.7K	5%	1/4W
R262	1-214-937-00	CARBON	1M		1/2W
R263	1-249-565-11	CARBON	3.6K		1/4W
R264	1-214-906-00	METAL	51K	1%	1/2W
R265	1-214-878-00	METAL	3.9K	1%	1/2W
R266	1-247-744-11	CARBON	270		1/2W
R267	1-206-458-00	CARBON	6.2	5%	1/3W
R268	1-247-215-00	CARBON	91		1/2W
R269	1-247-704-11	CARBON	220		1/4W
R270	1-247-725-11	CARBON	10K	5%	1/4W
R271	1-247-704-11	CARBON	220	5%	1/4W
R272	1-247-719-11	CARBON	3.3K	5%	1/4W
R302	1-249-465-11	CARBON	47K		1/4W
R303	1-247-721-11	CARBON	4.7K		1/4W
R304	1-247-722-11	CARBON	5.6K		1/4W
R305	1-247-717-11	CARBON	2.2K		1/4W
R306	1-249-466-11	CARBON	56K		1/4W
R307	1-247-725-11	CARBON	10K		1/4W
R308	1-249-465-11	CARBON	47K		1/4W
R309	1-249-465-11	CARBON	47K		1/4W
R310	1-202-727-00	CARBON	4.7M	5%	1/3W
R311	1-202-727-00	CARBON	4.7M	5%	1/3W
R312	1-202-727-00	CARBON	4.7M	5%	1/3W
R313	1-202-727-00	CARBON	4.7M	5%	1/3W
R314	1-202-727-00	CARBON	4.7M	5%	1/3W
R315	1-202-727-00	CARBON	4.7M	5%	1/3W
R352	1-249-465-11	CARBON	47K		1/4W
R353	1-247-721-11	CARBON	4.7K		1/4W
R354	1-247-722-11	CARBON	5.6K		1/4W
R355	1-247-717-11	CARBON	2.2K		1/4W
R356	1-249-466-11	CARBON	56K		1/4W
R357	1-247-725-11	CARBON	10K		1/4W
R358	1-249-465-11	CARBON	47K		1/4W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R359	1-249-465-11	CARBON	47K		1/4W	
R360	1-202-727-00	CARBON	4.7M	5%	1/3W	
R361	1-202-727-00	CARBON	4.7M	5%	1/3W	
R362	1-202-727-00	CARBON	4.7M	5%	1/3W	
R363	1-202-727-00	CARBON	4.7M	5%	1/3W	
R364	1-202-727-00	CARBON	4.7M	5%	1/3W	
R365	1-202-727-00	CARBON	4.7M	5%	1/3W	
R401	1-202-727-00	CARBON	4.7M	5%	1/3W	
R402	1-247-713-11	CARBON	1K		1/4W	
R403	1-247-692-11	CARBON	22	5%	1/4W	
R404	1-247-692-11	CARBON	22	5%	1/4W	
R405	1-247-717-11	CARBON	2.2K	5%	1/4W	
R406	1-247-704-11	CARBON	220		1/4W	
R407	1-247-700-11	CARBON	100		1/4W	
R408	1-247-704-11	CARBON	220		1/4W	
R409	1-247-704-11	CARBON	220		1/4W	
R410	1-246-545-00	CARBON	1M		1/4W	
R412	⚠1-217-440-00	FUSIBLE	33	5%	1/2W	F
R413	1-249-490-11	CARBON	27K	5%	1/2W	
R414	1-247-704-11	CARBON	220	5%	1/4W	
R415	1-246-531-00	CARBON	270K		1/4W	
R416	1-247-740-11	CARBON	120		1/2W	
R417	1-249-486-11	CARBON	12K		1/2W	
R418	1-247-764-11	CARBON	10K		1/2W	
R419	1-202-727-00	CARBON	4.7M	5%	1/3W	
R420	1-247-715-11	CARBON	1.5K	5%	1/4W	
R421	1-247-721-11	CARBON	4.7K	5%	1/4W	
R422	⚠1-217-446-00	FUSIBLE	100	5%	1/2W	F
R423	⚠1-247-710-11	CARBON	560	5%	1/4W	
R424	1-247-718-11	CARBON	2.7K	5%	1/4W	
R425	1-247-710-11	CARBON	560	5%	1/4W	
R426	⚠1-217-454-00	FUSIBLE	470	5%	1/2W	F
R427	⚠1-217-434-00	FUSIBLE	10	5%	1/2W	F
R428	⚠1-217-434-00	FUSIBLE	10	5%	1/2W	F
R429	⚠1-217-446-00	FUSIBLE	100	5%	1/2W	F
R430	⚠1-217-434-00	FUSIBLE	10	5%	1/2W	F
R431	⚠1-217-434-00	FUSIBLE	10	5%	1/2W	F
R432	⚠1-217-434-00	FUSIBLE	10	5%	1/2W	F
R433	⚠1-217-434-00	FUSIBLE	10	5%	1/2W	F
R434	⚠1-217-151-00	RES, METAL PLATE	0.22			
R435	⚠1-217-151-00	RES, METAL PLATE	0.22			
R436	⚠1-217-151-00	RES, METAL PLATE	0.22			
R437	⚠1-217-151-00	RES, METAL PLATE	0.22			
R438	⚠1-247-692-11	CARBON	22	5%	1/4W	F
R439	⚠1-247-692-11	CARBON	22	5%	1/4W	F
R440	⚠1-247-715-11	CARBON	1.5K	5%	1/4W	F
R441	1-249-460-11	CARBON	15K	5%	1/4W	
R442	⚠1-217-582-00	CEMENTED	8.2	10%	5W	
R443	1-247-727-11	CARBON	10	5%	1/2W	
R444	⚠1-217-446-00	FUSIBLE	100	5%	1/2W	F
R445	⚠1-217-446-00	FUSIBLE	100	5%	1/2W	F
R446	⚠1-216-431-11	METAL OXIDE	560	5%	1W	F
R447	⚠1-217-426-00	FUSIBLE	2.2	5%	1/2W	F
R448	⚠1-217-426-00	FUSIBLE	2.2	5%	1/2W	F
R449	⚠1-247-688-11	(G-AEP)...CARBON	10	5%	1/4W	F
R451	1-202-727-00	CARBON	4.7M	5%	1/3W	
R452	1-247-713-11	CARBON	1K		1/4W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R453	1-247-692-11	CARBON	22	5%	1/4W	
R454	1-247-692-11	CARBON	22	5%	1/4W	
R455	1-247-717-11	CARBON	2.2K	5%	1/4W	
R456	1-247-704-11	CARBON	220		1/4W	
R457	1-247-700-11	CARBON	100		1/4W	
R458	1-247-704-11	CARBON	220		1/4W	
R459	1-247-704-11	CARBON	220		1/4W	
R460	1-246-545-00	CARBON	1M		1/4W	
R462	⚠1-217-440-00	FUSIBLE	33	5%	1/2W	F
R463	1-249-490-11	CARBON	27K	5%	1/2W	
R464	1-247-704-11	CARBON	220	5%	1/4W	
R465	1-246-531-00	CARBON	270K		1/4W	
R466	1-247-740-11	CARBON	120		1/2W	
R467	1-249-486-11	CARBON	12K		1/2W	
R468	1-247-764-11	CARBON	10K		1/2W	
R469	1-202-727-00	CARBON	4.7M	5%	1/3W	
R470	1-247-715-11	CARBON	1.5K	5%	1/4W	
R471	1-247-721-11	CARBON	4.7K	5%	1/4W	
R472	⚠1-217-446-00	FUSIBLE	100	5%	1/2W	F
R473	⚠1-247-710-11	CARBON	560	5%	1/4W	
R474	1-247-718-11	CARBON	2.7K	5%	1/4W	
R475	1-247-710-11	CARBON	560	5%	1/4W	
R476	⚠1-217-454-00	FUSIBLE	470	5%	1/2W	F
R477	⚠1-217-434-00	FUSIBLE	10	5%	1/2W	F
R478	⚠1-217-434-00	FUSIBLE	10	5%	1/2W	F
R479	⚠1-217-446-00	FUSIBLE	100	5%	1/2W	F
R480	⚠1-217-434-00	FUSIBLE	10	5%	1/2W	F
R481	⚠1-217-434-00	FUSIBLE	10	5%	1/2W	F
R482	⚠1-217-434-00	FUSIBLE	10	5%	1/2W	F
R483	⚠1-217-434-00	FUSIBLE	10	5%	1/2W	F
R484	⚠1-217-151-00	RES, METAL PLATE	0.22			
R485	⚠1-217-151-00	RES, METAL PLATE	0.22			
R486	⚠1-217-151-00	RES, METAL PLATE	0.22			
R487	⚠1-217-151-00	RES, METAL PLATE	0.22			
R488	⚠1-247-692-11	CARBON	22	5%	1/4W	F
R489	⚠1-247-692-11	CARBON	22	5%	1/4W	F
R490	⚠1-247-715-11	CARBON	1.5K	5%	1/4W	F
R491	1-249-460-11	CARBON	15K	5%	1/4W	
R492	⚠1-217-582-00	CEMENTED	8.2	10%	5W	
R493	1-247-727-11	CARBON	10	5%	1/2W	
R494	⚠1-217-446-00	FUSIBLE	100	5%	1/2W	F
R495	⚠1-217-446-00	FUSIBLE	100	5%	1/2W	F
R496	⚠1-216-431-11	METAL OXIDE	560	5%	1W	F
R497	⚠1-217-426-00	FUSIBLE	2.2	5%	1/2W	F
R498	⚠1-217-426-00	FUSIBLE	2.2	5%	1/2W	F
R499	⚠1-247-688-11	(G-AEP)...CARBON	10	5%	1/4W	F
R504	1-247-724-11	CARBON	8.2K	5%	1/4W	
R505	⚠1-247-120-00	CARBON	360	5%	1/4W	F
R506	⚠1-216-430-11	METAL OXIDE	390	5%	1W	F
R507	⚠1-213-142-00	METAL OXIDE	820	5%	1W	F
R601	1-246-533-00	CARBON	330K		1/4W	
R602	1-246-529-00	CARBON	220K		1/4W	
R603	1-247-725-11	CARBON	10K	5%	1/4W	
R604	1-246-533-00	(G-AEP)...CARBON	330K		1/4W	
R604	1-249-461-11	(EXCEPT FOR G-AEP) ...CARBON	18K	5%	1/4W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R605	1-246-531-00	CARBON 270K 5% 1/4W
R606	1-249-460-11	CARBON 15K 5% 1/4W
R607	1-249-462-11	CARBON 22K 5% 1/4W
R608	1-249-462-11	CARBON 22K 5% 1/4W
R609	1-247-721-11	CARBON 4.7K 5% 1/4W
R610	**⚠1-206-640-00**	**METAL OXIDE 100 5% 2W F**
R611	**⚠1-206-640-00**	**METAL OXIDE 100 5% 2W F**
R612	**⚠1-213-131-00**	**METAL OXIDE 100 5% 1W F**
R614	**⚠1-249-489-11**	**CARBON 22K 5% 1/2W F**
R615	**⚠1-216-455-11**	**METAL OXIDE 560 5% 2W F**
R616	**⚠1-216-455-11**	**METAL OXIDE 560 5% 2W F**
R617	**⚠1-213-132-00**	**METAL OXIDE 120 5% 1W F**
R618	**⚠1-213-141-00**	**METAL OXIDE 680 5% 1W F**
R619	1-249-462-11	CARBON 22K 5% 1/4W
R620	1-249-462-11	CARBON 22K 5% 1/4W
R621	1-247-128-00	CARBON 750 5% 1/4W
R630	**⚠1-217-434-00**	**(G-AEP)...FUSIBLE 10 5% 1/2W F**
R651	1-246-533-00	CARBON 330K 1/4W
R680	**⚠1-217-434-00**	**(G-AEP)...FUSIBLE 10 5% 1/2W F**
R701	**⚠1-213-086-00**	**FUSIBLE 120 5% 1W F**
R751	**⚠1-213-086-00**	**FUSIBLE 120 5% 1W F**
RT401	1-224-550-21	RES, ADJ, SOLID 220 (OFF SET)
RT402	1-224-248-XX	RES, ADJ, SOLID 470 (BIAS)
RT451	1-224-550-21	RES, ADJ, SOLID 220 (OFF SET)
RT452	1-224-248-XX	RES, ADJ, SOLID 470 (BIAS)
RY201	1-515-495-00	RELAY
RY301	1-515-495-00	RELAY
RY601	1-515-503-00	RELAY
RY602	1-515-356-00	RELAY
RY603	1-515-356-00	RELAY
S101	1-554-879-11	SWITCH, SLIDE(INPUT SELECTOR)
S102	1-570-593-11	SWITCH, SLIDE(REMOTE TYPE) (TAPE SELECTOR)
S103	1-570-076-11	SWITCH, SLIDE (REMOTE TYPE) (REC OUT SELECTOR)
S104	1-516-785-XX	SWITCH, SLIDE (ADAPTOR)
S201	1-554-019-00	SWITCH, SLIDE (REMOTE TYPE) (CARTRIDGE LOAD)
S301	1-570-594-11	SWITCH, PUSH (2 KEY)(MUTING)
S302	1-570-595-11	SWITCH, PUSH (1 KEY)(SUB SONIC)
S303	1-570-596-11	SWITCH, PUSH (3 KEY)(TONE)
S304	1-570-594-11	SWITCH, PUSH (2 KEY)(SOURCE DIRECT)
S305	1-570-596-11	SWITCH, PUSH (3 KEY)(TURNOVER)
S306	1-570-596-11	SWITCH, PUSH (3 KEY)(TURNOVER)
S501	1-570-592-11	SWITCH, ROTARY (MODE)
S601	1-554-876-11	SWITCH, ROTARY (SPEAKER)

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S801	**⚠1-552-084-00**	**(E).....SWITCH, PUSHBUTTON (POWER)**
S801	**⚠1-552-246-00**	**(US,Canadian)....SWITCH, PUSHBUTTON (POWER)**
S801	**⚠1-554-880-11**	**(AEP,G-AEP,UK)...SWITCH, PUSHBUTTON (POWER)**
T1	**⚠1-448-631-11**	**(UK,G-AEP)......TRANSFORMER, POWER**
T1	**⚠1-448-632-11**	**(E).............TRANSFORMER, POWER**
T1	**⚠1-448-633-11**	**(US,Canadian)...TRANSFORMER, POWER**
T1	**⚠1-448-634-11**	**(AEP)...........TRANSFORMER, POWER**
VR301	1-237-113-11	RES, VAR, CARBON 150K/150K (BALANCE)
VR302	1-237-174-11	RES, VAR, CARBON 250K/250K (TREBLE)
VR303	1-237-173-11	RES, VAR, CARBON 1M/500K/1M/500K (BASS)
VR304	1-237-175-11	RES, VAR, CARBON 120K/120K (ATTENUATOR)
VS801	⚠1-526-576-31	(E)...SELECTOR, POWER VOLTAGE

ACCESSORY & PACKING MATERIAL

Part No.	Description
⚠1-526-565-00	(E)....AC PLUG ADAPTOR
2-297-403-00	SHEET (LARGE), PROTECTION
3-701-630-00	BAG, POLYETHYLENE
3-765-111-12	MANUAL, INSTRUCTION
4-908-877-01	CUSHION
4-908-883-01	SPACER
4-908-893-01	(E)...INDIVIDUAL CARTON
4-916-749-01	(EXCEPT FOR E)...INDIVIDUAL CARTON

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Sony Corporation
Audio Group

English
87E0293-1
Printed in Japan
© 1987. 5